



Roche

YTD September 2021 sales

Basel, 20 October 2021



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- 9 litigation;
- 10 loss of key executives or other employees; and
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Group

Severin Schwan Chief Executive Officer





YTD Sep 2021 performance

Outlook

YTD Sep 2021: Continued strong performance; Guidance raised



- Guidance raised: Sales growth to "mid-single digit" from "low- to mid-single digit", Core EPS growth broadly in line with sales growth
- Group sales up +8%
 - Diagnostics with double digit growth in Q3 (+18%), despite high base, strong recovery of base business
 - Pharma continued growth in Q3 +5% (Q2:+4%), strong performance of new products (capturing >50% of Pharma sales)

Good development of pipeline

- Pharma: 14 Phase III trials initiated; 17 NMEs in late stage (pivotal)
- Diagnostics: Significant launches in Q4 (cobas[®] 5800, cobas[®] pulse, AVENIO FoundationOne kit & NAVIFY Oncology 1.0)

Strong news flow over the next 1.5 years

- Faricimab and PDS in ophthalmology, Polivy and CD20xCD3 bi-specifics in hematology, AT-527 in SARS-CoV-2, Tecentriq in the adjuvant setting in various cancer types, tiragolumab + Tecentriq combo in 4 different cancer types, giredestrant (SERD) in HR+ breast cancer
- BTD for gantenerumab in Alzheimer's disease in Q3



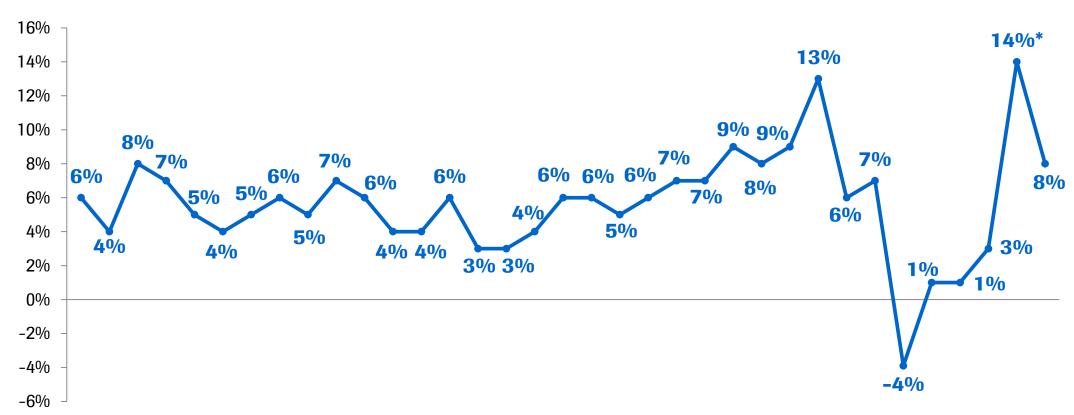


	2021	2020	Change in %	
	CHFbn	CHFbn	CHF	CER
Pharmaceuticals Division	33.4	34.3	-3	0
Diagnostics Division	13.3	9.7	38	39
Roche Group	46.7	44.0	6	8

CER=Constant Exchange Rates 7

Q3 2021: Strong sales growth

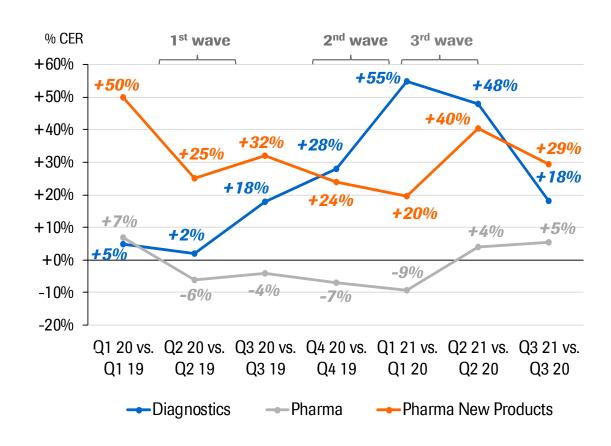




Q3 2021: Strong business momentum



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Pharmaceuticals

- Recovery in Q3 2021 expected to continue in Q4 2021
- Impact from biosimilars, expected to flatten in the coming quarters

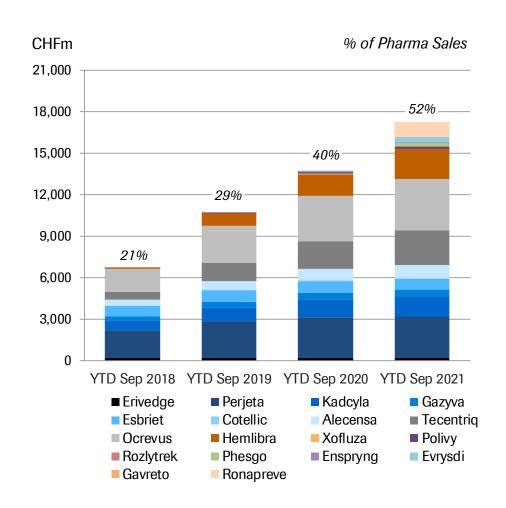
Diagnostics

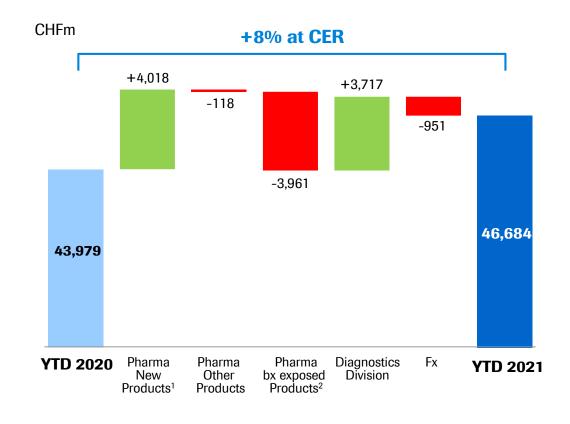
- Strong routine testing growth, +11% in Q3 2021
- COVID-19 business expected to show similar pattern in Q4 2021

Growth rates at CER (Constant Exchange Rates)



YTD Sep 2021 Pharma: New products with continued momentum compensating for biosimilar impact







YTD Sep 2021 performance

Outlook

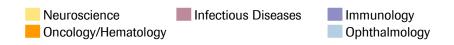


Pharma: Significantly advancing patient care 39 Breakthrough Therapy Designations received since 2013

Year	Molecule	Indication	
0001	gantenerumab	Alzheimer's disease	
2021	Venclexta + azacitidine	higher-risk MDS	
2020	tiragolumab +Tecentriq	1L PD-L1+ NSCLC	
	mosunetuzumab	3L+ FL	
	Tecentriq	unresectable or metastatic ASI	
	Esbriet	ulLD	
	Gavreto	RET fusion-positive NSCLC	
2019	Gavreto	RET mutation-positive MTC	
	Cotellic	Histiocytic neoplasms	
	Gazyva	Lupus nephritis	
	rhPentraxin-2 (PRM-151)	IPF	
	Venclexta + Gazyva	1L unfit CLL	
	Kadcyla	Adjuvant HER2+ BC	
	SPK-8011	Haemophilia A	
	Enspryng	NMOSD	
2018	Xolair	Food allergies	
2016	Tecentriq + Avastin	1L HCC	
	Hemlibra	Haemophilia A non-inhibitors	
	Rozlytrek	NTRK+ solid tumors	
	Polivy + BR	R/R DLBCL	
2017	Venclexta + LDAC	1L unfit AML	
	Zelboraf	BRAF-mutated ECD	
	Rituxan	Pemphigus vulgaris	

14 new Ph III studies initiated YTD

- Kadcyla + Tecentriq (KATE 3) in 2L+ HER2+ PDL1+ mBC
- giredestrant (lidERA) in ER+ adj. BC
- Kadcyla + Tecentriq (ASTEFANIA) in HER2+ eBC high-risk
- Tecentriq (IMvigor011) in ctDNA+, high-risk MIBC
- rhPTX-2 (STARSCAPE) in IPF
- Gazyva (MAJESTY) in membranous nephropathy
- faricimab (BALATON & CAMINO) in branch & central RVO
- PDS with ranibizumab (Velodrome) in wAMD (36w interval)
- fenebrutinib in RMS (FENhance 1/2)
- SRP-9001 (EMBARK) in DMD (collaboration with Sarepta)
- Enspryng (Luminesce) in Myasthenia Gravis
- AT-527 (MORNINGSKY) in adult pts with SARS-COV-2





2021 outlook raised

Sales growth to "mid-single digit" from "low- to mid-single digit"

Group sales growth¹

Mid-single digit (from low- to mid-single digit)

Core EPS growth¹

Broadly in line with sales growth

Dividend outlook

Further increase dividend in Swiss francs



Pharmaceuticals Division

Bill Anderson CEO Roche Pharmaceuticals





YTD Sep 2021: Pharmaceuticals Division sales New products compensating for biosimilars despite COVID-19 impact

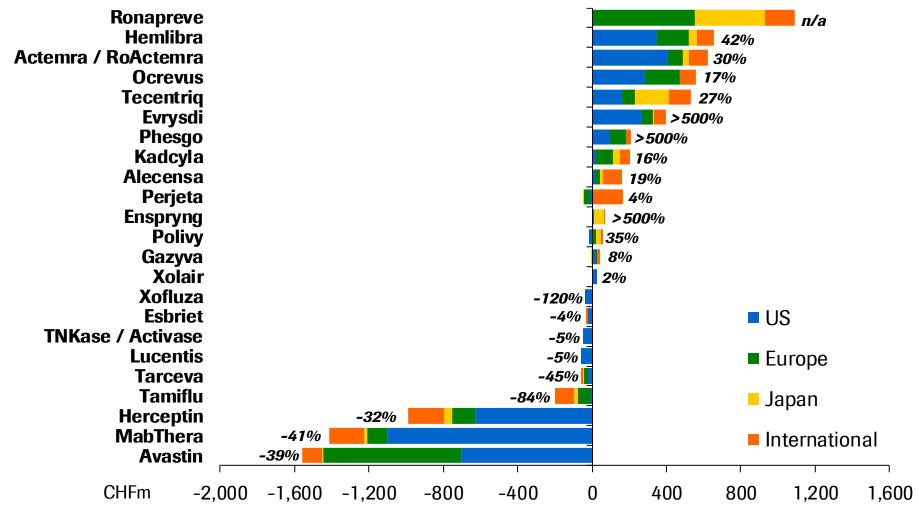
	2021	2020	Change in %	
	CHFm	CHFm	CHF	CER
Pharmaceuticals Division	33,379	34,317	-3	0
United States	16,707	18,389	-9	-5
Europe	6,610	6,268	5	3
Japan	3,186	2,802	14	20
International	6,876	6,858	0	2

CER=Constant Exchange Rates

Roche

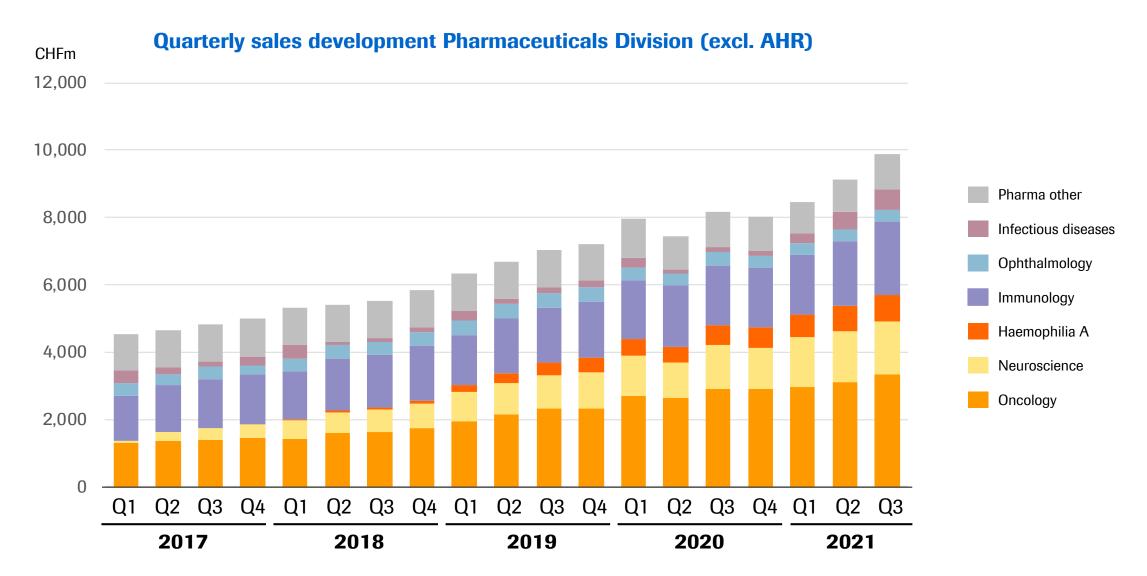
YTD Sep 2021: Continued portfolio rejuvenation

>50% of sales from new products*



Pharma growth dynamic excl. AHR* further improving

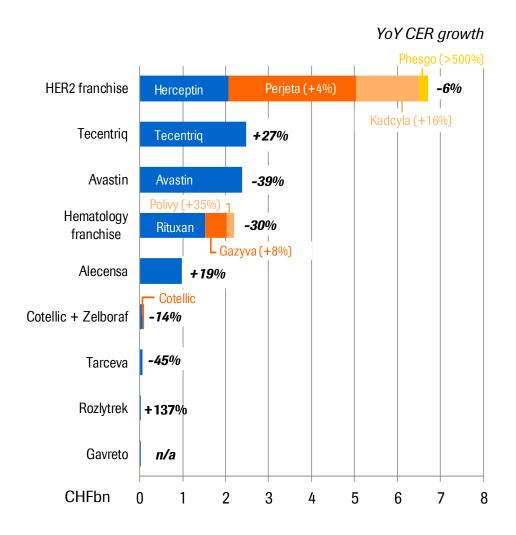




^{*} AHR=Avastin, Herceptin, MabThera/Rituxan; all absolute values in Constant Exchange Rates (avg. FY 2020); "Pharma Other" comprises the tail end products

YTD Sep 2021: Oncology still impacted by biosimilars & COVID-19





HER2 franchise

- Kadcyla (+16%) with growth in all regions due to adjuvant BC
- Perjeta (+4%) growth cannibalized by Phesgo launch
- Phesgo: Successful launch (CHFm 213) in US and EU ongoing

Avastin franchise

Biosimilar erosion in all regions

Tecentriq

Growth (+27%) driven by 1L HCC and 1L SCLC

Hematology franchise*

- Venclexta: Strong growth driven by 1L AML and 1L and R/R CLL
- Gazyva (+8%): Growth due to 1L FL and in 1L CLL
- Polivy (+35%): Growth in R/R DLBCL; Positive Ph III (POLARIX) results in 1L DLBCL to be presented in H2 2021

Alecensa

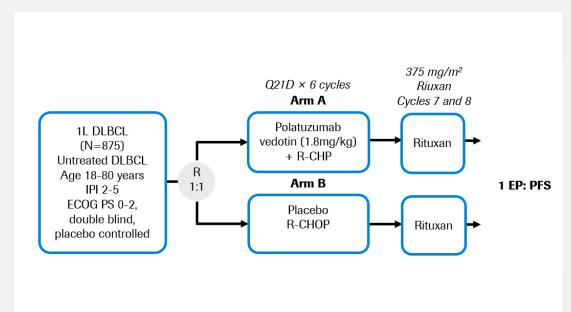
Growth (+19%) driven by all regions

Hematology franchise

Roche

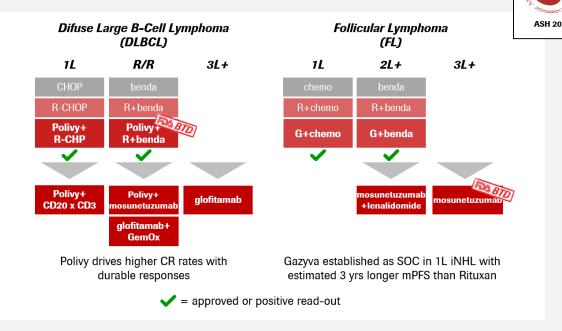
First positive Ph III (POLARIX) in a curative setting in the last 20 years

Ph III (POLARIX) trial design in 1L DLBCL



- Positive Ph III (POLARIX) results for Polivy + R-CHP in 1L DLBCL to be presented at upcoming conference
- First positive results in a curative setting in the last 20 years

Shaping the standard of care in NHL

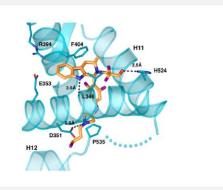


- Early filings for glofit in 3L+ DLBCL in Q1 2022 and for mosun in 3L+ FL in Q4 2021 on track
- Ph III (SUNMO) Polivy + mosun in 2L+ DLBCL to start in Q4 21
- Ph III (STARGLO) glofit + GemOx in 2L+ DLBCL started in Q1 21
- Ph III (CELESTIMO) mosun + lenalidomide in 2L+ FL to start in Q4 21

HR+/HER2- breast cancer: Giredestrant a next generation SERD

Encouraging Ph II neoadjuvant interim results presented





- Potentially best-in-class efficacy being 7-15x more potent than other SERDs in development
- Differentiated MOA leads to immobilization of the ER prior to its degredation
- Standardized dose and similar exposure in mono and combination settings

Ph II (coopERA) interim results in neoadjuvant setting

Ki67 reduction and complete cell cycle arrest (CCCA)

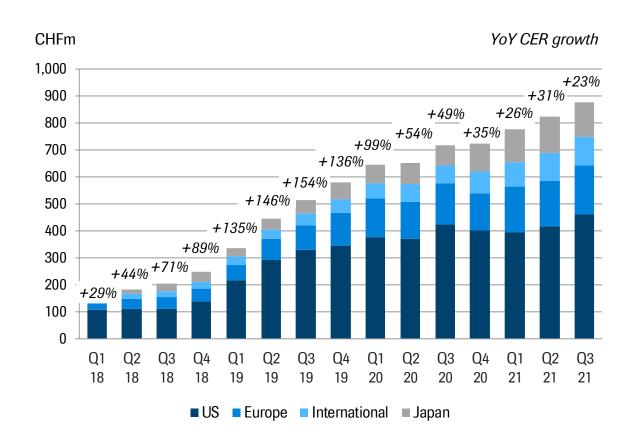
	Giredestrant n = 44	Anastrozole n = 39	
Relative reduction at Week 2 from baseline			
Geometric mean (95% CI)	- 80% (-85%, -72%)	- 67% (-75%, -56%)	
P-value (proportional change)	0.0222 [†]		
CCCA (≤2.7%)			
Week 2 (%)	11 (25.0%)	2 (5.1%)	
Difference between arms (95% CI)	-19.87% (-36.84%, -2.91%)		

Trial program



- Encouraging impact on proliferation (-80% relative reduction in Ki67 at week 2)
- 25% of tumors with complete cell cycle arrest (CCCA) at week 2
- Safety consistant with known safety profile; Efficacy supportive of 30mg dose
- Ph III (lidERA) giredestrant vs SOC in the adjuvant setting started in Q3 2021
- Ph II (acelERA) in 2/3L mBC results expected mid 2022





Tecentriq Q3 update

Lung franchise (NSCLC, SCLC)

- EU: Growth driven by 1L SCLC
- US/EU/Japan/China: Adjuvant PDL1+ NSCLC (IMpower010) filed (RTOR in the US)
- US: IMpower010 accelerated approval achieved

GI franchise (HCC)

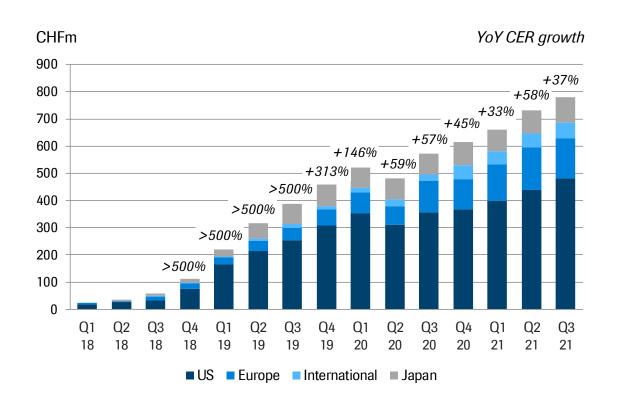
US/EU/Japan: Growth driven by 1L HCC

Outlook 2021

 Ph III (IMforte) Tecentriq + Iurbinectedin in 1L maintenance SCLC to be initiated







Hemophilia Q3 update

- US/EU: Gaining market share in non-inhibitors
- #1 prescribed prophylaxis in the US for people with Hemophilia A; >12,500 patients treated globally
- Hemlibra continues to penetrate across all patient types
- EU: Hemophilia A in mild/moderate patients (HAVEN 6) filed

Outlook 2021

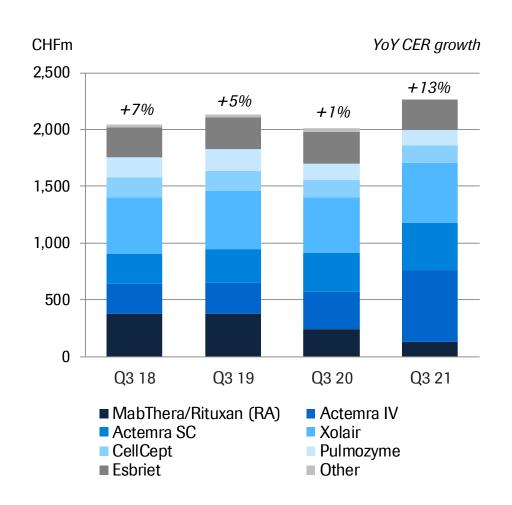
US/EU: Further patient share gains in non-inhibitors

CER=Constant Exchange Rates

Immunology franchise remains impacted by COVID-19







Immunology Q3 update

Actemra (+57%)

- WHO recommends IL-6 inhibitors for hospitalized COVID-19 patients
- Remains leading RA monotherapy in EU-5; shift from IV to SC

Esbriet (-5%)

• COVID-19 impact on new patient starts

Xolair (+8%)

- Remains leader in biologics asthma market; growth in CIU
- Self-injection (home use) approved in US in Q2

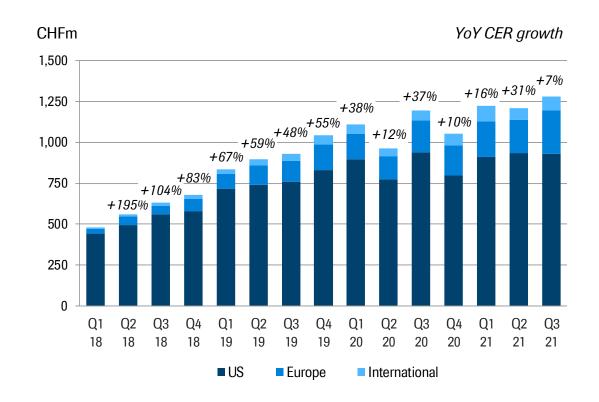
Outlook 2021

 Ph III (ALLEGORY) Gazyva in systemic lupus erythematosus (SLE) to start in Q4 2021

MS franchise: Ocrevus total US market share increases to 29% MS late stage development programs progressing well







Q3 update

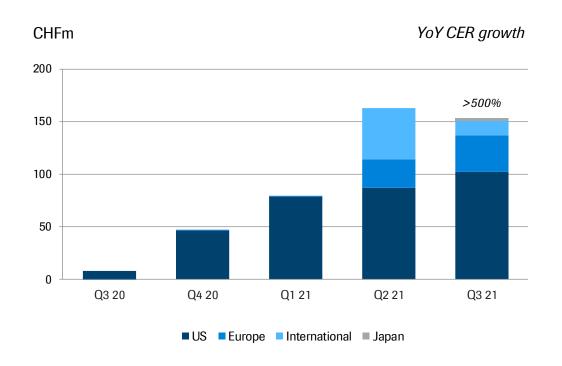
- US impacted by SARS-CoV-2 delta wave
- Higher dose Ocrevus: Ph III (MUSETTE) in RMS and Ph III (GAVOTTE) in PPMS recruiting strongly
- Fenebrutinib (BTKi): Ph III programs in RMS (FENhance I/II) and PPMS (FENtrepid) recruiting
- Up to 8-year follow up data in RMS and PPMS presented at ECTRIMS

Outlook 2021

Continued growth expected with further impact from COVID-19







Q3 update

- ~4,000 patients treated world wide (commercial, clinical trials, compassionate use)
- US: >550 HCPs from >400 sites have prescribed Evrysdi
- EU: Strong launch in early launch countries
- ~2/3 of all treated patients switched from Spinraza and/or Zolgensma; 1/3 naive patients

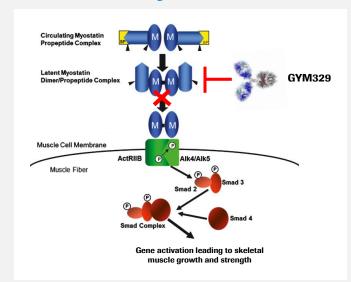
Outlook 2021

- Continued growth and market share gains expected
- Ph II/III (MANATEE) Evrysdi + GYM329 in SMA to be initiated



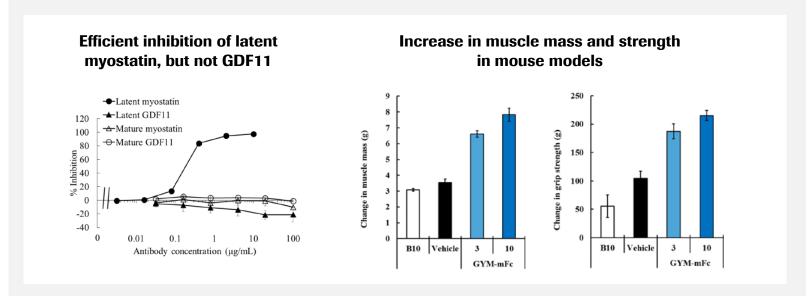
SMA franchise: Anti-latent myostatin recycling antibody Ph II/III combination study with Evrysdi initiated

Anti-latent myostatin recycling antibody (GYM329)



- GYM329 binds to the myostatin precursor protein inhibiting its activation by proteases
- Myostatin is a key negative regulator of skeletal muscle growth and strength

Preclinical GYM329 data in mouse models of muscle disease



- Contrary to other drugs in development, GYM329 efficiently inhibits myostatin, but not the related muscle hormone GDF11, making it highly specific
- In an animal model of SMA disease a combination of GYM329 + SMN2 splicing modifier* improved muscle size and strength
- Ph I completed; No safety signals in healthy volunteers; Ph II/III start expected in Q1 22

Our replace and extend strategy is progressing well



Replace ongoing franchises

MabThera/Rituxan

Gazyva,
Venclexta,
Polivy,
mosunetuzumab,
glofitamab

Herceptin Perjeta,
Kadcyla,
Phesgo

Avastin

Tecentriq,
Alecensa,
Rozlytrek,
tiragolumab

Lucentis Port delivery system (PDS) faricimab

Tamiflu Xofluza

Esbriet rhPentraxin-2

Entering new franchises

Oncology:

Tecentriq (mUC, SCLC, HCC, mM, adj. NSCLC), ipatasertib (mCRPC), giredestrant (HR+ BC)

Non-malignant hem: Hemlibra, SPK-8011, crovalimab (PNH, aHUS)

Neuroscience:

Ocrevus (RMS, PPMS), fenebrutinib (RMS, PPMS) Enspryng (NMOSD, gMG), Evrysdi, GYM329 (SMA), gantenerumab (AD), SRP-9001 (DMD)

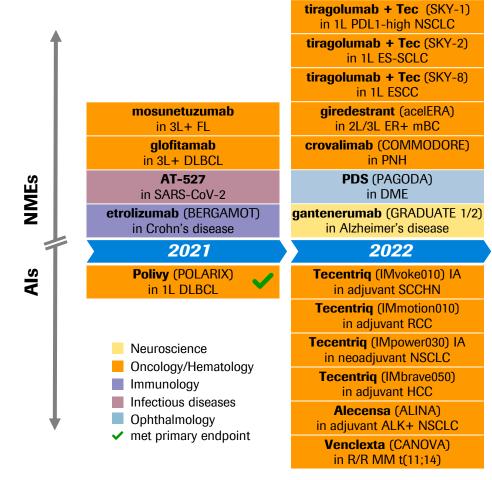
Infectious diseases:

Ronapreve (COVID-19), AT-527 (COVID-19)

Immunology:

etrolizumab (CD), Gazyva (LN, MN, SLE)

Strong news flow ahead (data readout)



mUC=metastatic urothelial carcinoma; SCLC=small cell lung cancer; HCC=hepatocellular carcinoma; mM=metastatic melanoma; mCRPC=metastatic castration resistant prostate cancer; HR=hormone receptor; BC=breast cancer; PNH=paroxysmal nocturnal hemoglobinuria; aHUS=atypical hemolytic uremic syndrome; RMS=relapsing multiple sclerosis; PPMS=primary progressive MS; NMOSD=neuromyelitis optica spectrum disorder; SMA=spinal muscular atrophy; AD=Alzheimer's disease; DMD=duchenne muscular dystrophy; CD=Crohn's disease; LN=lupus nephritis; MN=membranous nephropathy; SLE=systemic lupus erythematosus; FL=follicular lymphoma; DLBCL= diffuse large B cell lymphoma; NSCLC=non-small cell lung cancer; ESCC=esophageal squamous cell carcinoma; DME=diabetic macular edema; IA=interim analysis; SCCHN=squamous cell carcinoma of the head and neck; RCC=renal cell carcinoma; HCC=hepatocellular carcinoma; MM=multiple myeloma

2021: Key late-stage news flow*

Compound



	Compound	indication	ivillestone	
Regulatory	Xofluza	Healthy patients; High risk patients; Post exposure	EU approval	~
	Evrysdi	SMA type 1/2/3	EU approval	✓
	faricimab	DME/nAMD	US/EU joint filing (DME+AMD)	~
	Tecentriq	1L PDL1+ NSCLC	EU approval	✓
	Venclexta + azacitidine	1L unfit AML	EU approval	✓
	Ronapreve	SARS-CoV-2	EU approval	
	PDS ranibizumab	nAMD (continuous delivery)	US/EU filing; US approval	
	faricimab	nAMD	Ph III TENAYA/LUCERNE	~
	Ronapreve	SARS-CoV-2 Outpatient	Ph III Study 2067	✓
	Ronapreve	SARS-CoV-2 Post-exposure prophylaxis	Ph III Study 2069	✓
Phase III / pivotal	Tecentriq	Adjuvant NSCLC	Ph III IMpower010	~
readouts	Evrysdi	SMA type 1/2/3 switching study	Ph II JEWELFISH	~
	mosunetuzumab	3L+ FL	Ph lb GO29781	
	Polivy + R-CHP	1L DLBCL	Ph III POLARIX	~
	glofitamab	3L+ DLBCL	Ph lb NP30179	
	Tecentriq + chemo	Adjuvant SCCHN	Ph III IMvoke010	2022

Indication

Additional 2021 news flow:

- Ronapreve: EMA positive scientific opinion for COVID-19
- Actemra/RoActemra: US approval for SSc-ILD
- **Xolair**: US approval for prefilled syringe for self-injection
- Actemra: US EUA for treatment of COVID-19 in hospitalized adults and children
- **Enspryng:** EU approval for NMOSD
- AT-527: Ph2 interim results (viral load reduction) for hospitalized patients
- Ronapreve: Positive Ph II/III (2066 study) results for sero-negative hospitalized patients
- Tecentriq: US accelerated approval for adjuvant PDL1+ NSCLC

 Digitalization Event
 ASH

 November 17
 December 15

 16:00-17:30 CET
 16:00-17:30 CET

 15:00-16:30 GMT
 15:00-16:30 GMT



Milestone

^{*} Outcome studies are event-driven: timelines may change; EUA=Emergency use authorization



Diagnostics Division

Thomas Schinecker CEO Roche Diagnostics



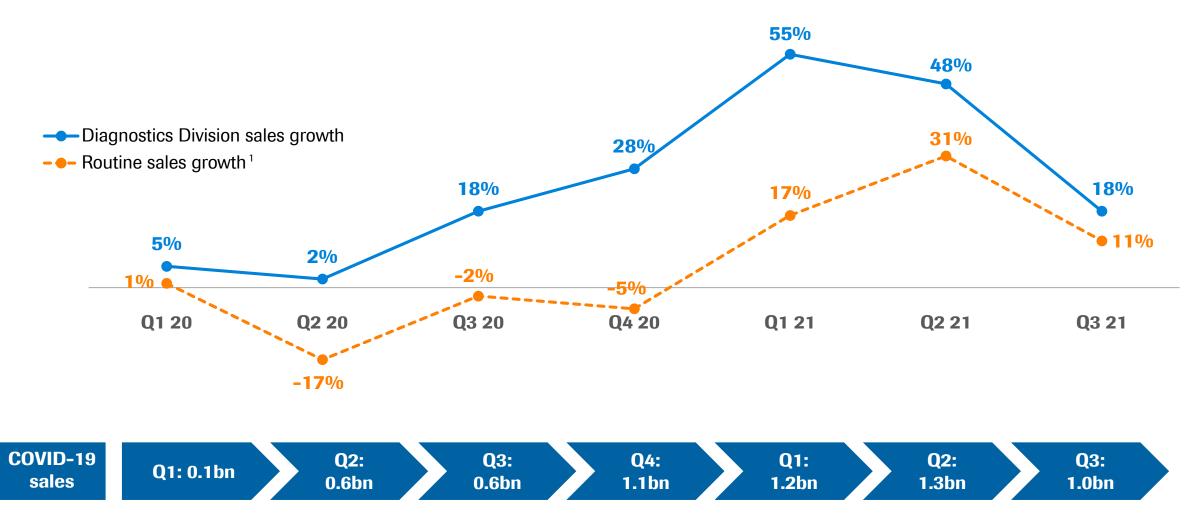


YTD Sep 2021: Diagnostics Division sales Very strong growth driven by COVID-19 and routine testing

	2021	2020	2020 Change in	
	CHFm	CHFm	CHF	CER
Diagnostics Division	13,305	9,662	38	39
Core Lab	5,610	4,487	25	26
Molecular Lab	3,454	2,578	34	36
Point of Care	2,058	541	280	279
Diabetes Care	1,294	1,261	3	4
Pathology Lab	889	795	12	14

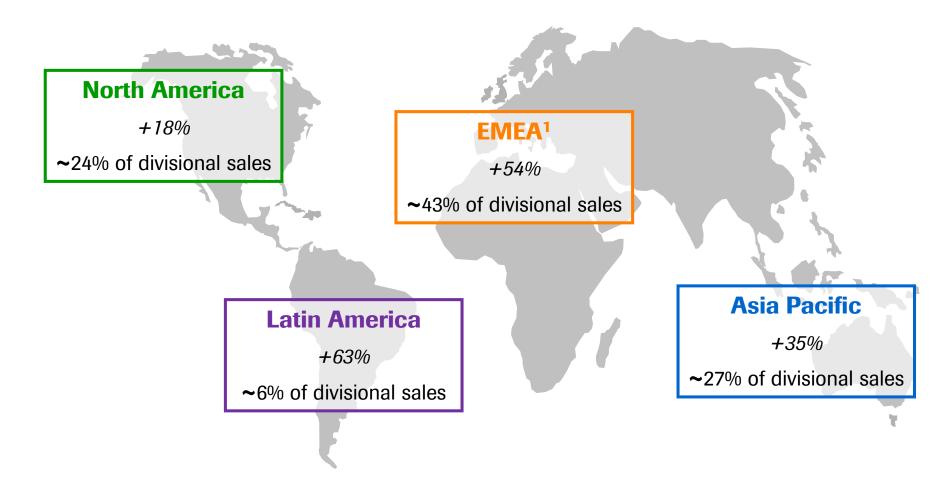


Diagnostics Division sales growth by quarter Maintaining strong routine testing growth



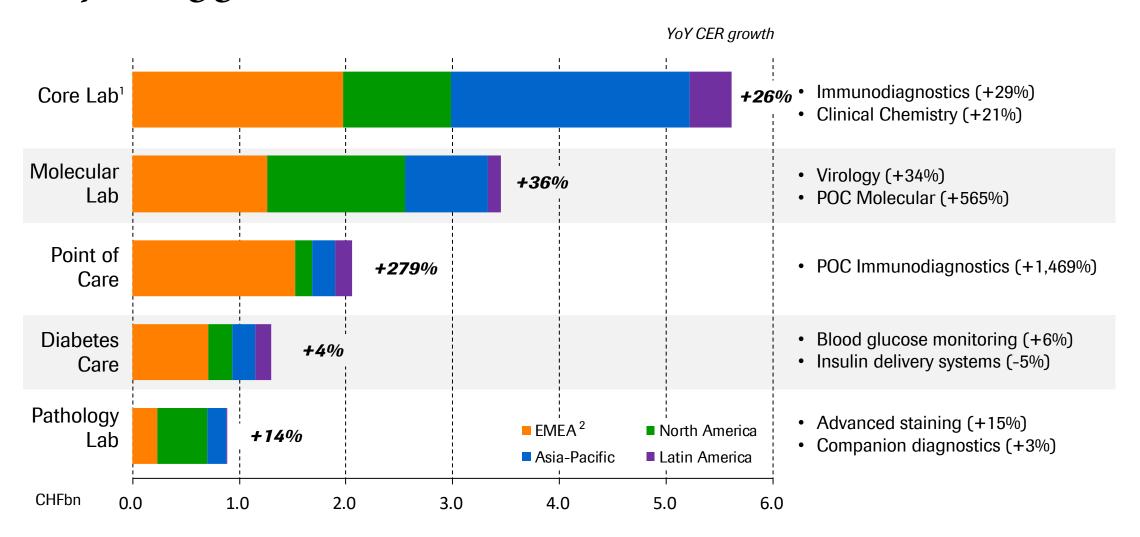


YTD Sep 2021: Diagnostics Division regional sales Very strong growth in all regions





YTD Sep 2021: Diagnostics Division highlights Very strong growth across all businesses

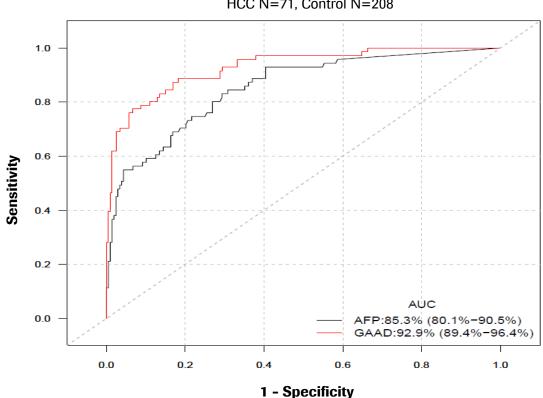




Elecsys[®] GAAD receives CE mark First IVD algorithm for early detection of hepatocellular carcinoma

Diagnosis of early stage HCC: AFP vs. GAAD¹

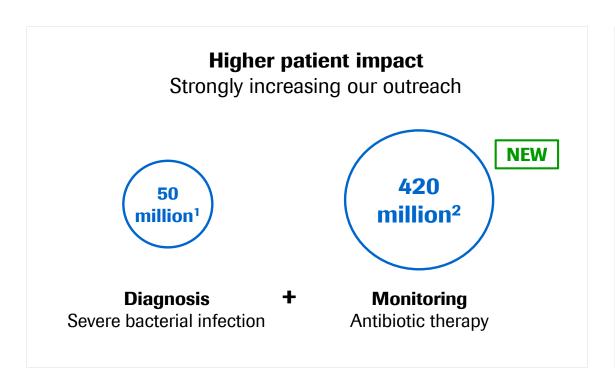


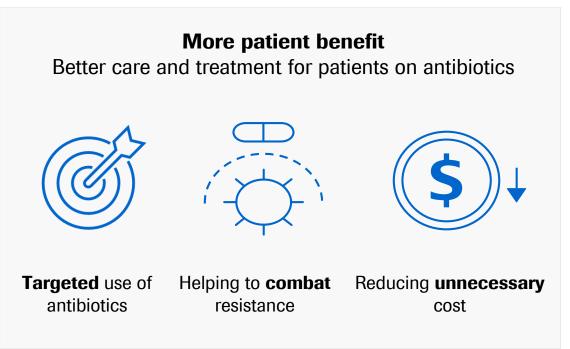


- 830K deaths per year caused by hepatocellular carcinoma²
- Algorithm combines gender and age with the results of two blood-based biomarkers (Elecsys® AFP and PIVKA-II)
- Early detection allows for potentially curative therapy with considerable improvement in survival: 5-year survival ranges up to 80% (vs 5% in general HCC population)^{3 4}
- Elecsys® GALAD in development for CE launch in 2022



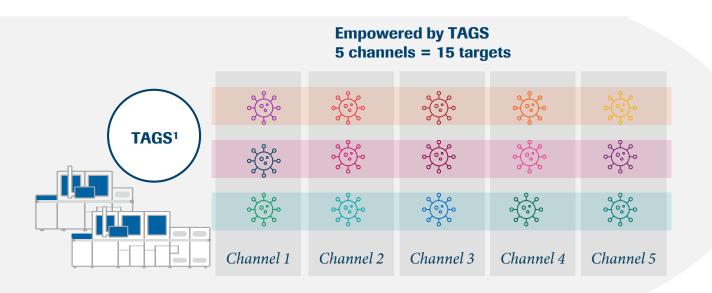
Claim extension of Elecsys® Brahms PCT assay Monitoring patients on antibiotic therapies improves outcomes and reduces cost of care





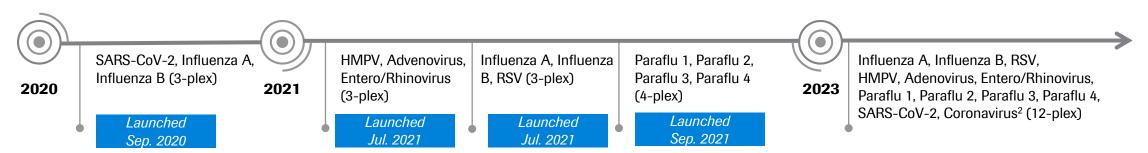


Launch of three respiratory test panels on cobas 6800/8800 Breaking the barriers of syndromic testing



- High unmet medical need: differential diagnosis between viruses
- Utilizes the cobas[®] 6800/8800 installed base

Respiratory Panels Timeline (launch timing per year is illustrative):



¹ TAGS=Temperature Activated Generation of Signal; ² Common cold coronaviruses including HKU1, OC43, NL63, 229E



Definitive share purchase agreement with TIB Molbiol¹ >45~CE~IVD~&>100~RUO~tests~available~on~existing~Roche~platforms

		Respiratory		
Coronavirus	Mutations	Mutations Cont.	Influenza	Resp. Virus
MERS Coronavirus UpE	SARS-CoV-2 Spike A23063T N501Y	SARS-CoV-2 Spike D253G	Influenza A*	Enterovirus*
MERS Coronavirus Orf1a	SARS-CoV-2 Spike del H69_V7	SARS-CoV-2 Spike L452R	Influenza A H1 (H1N1)*	Parechovirus (hPeV)*
Coronavirus HKU1	SARS-CoV-2 Spike D614G	SARS-CoV-2 Spike P681R	Influenza A H3	Metapneumovirus (hMPV)*
Coronavirus OC43	SARS-CoV-2 Spike Y453F (mink)	SARS-CoV-2 Spike E484Q	Influenza A H5	Bocavirus (hBoV)*
Coronavirus 229E	SARS-CoV-2 Spike P681H	SARS-CoV-2 Spike D253G	Influenza A H7 (H7N9)	Respiratory Syncytial Virus (RSV)*
Coronavirus NL63	SARS B117 (Spike del+501)	Parainfluenza	Influenza A H7 (H7N9) (640)	Atypical Pneumonia
panCoronavirus	SARS B1351 (484K+501Y)	Parainfluenza 4 (hPIV-4) NP gene*	Influenza A H9	Pneumocystis jirovec (PCP)
SARS-CoV-2 (COVID- 19) N-gene	SARS-CoV-2 Spike E484K	Parainfluenza 3 (hPIV-3) M gene*	Influenza B*	Mycoplasma pneumoniae
SARS-CoV-2 (COVID- 19) E-gene*	SARS-CoV-2 Spike A570D	Parainfluenza 2 (hPIV-2) L gene*	Resp. Bacteria	Chlamydophila psittaci
SARS-CoV-2 (COVID- 19) E+N-gene	SARS-CoV-2 Spike K417N	Parainfluenza 1 (hPIV-1) HN gene*	Bordetella pertussis	Chlamydia pneumoniae
SARS-CoV-2 (COVID- 19) RdRP-gene	SARS-CoV-2 Spike V1176F	Parainfluenza (PIV-1,2,3,4)	Bordetella parapertussis	Legionella pneumophila
	SARS del69,70			

	Gastroenteriti	
Parasites	Bacteria	Virus
Giardia*	Aeromonas*	Norovirus GG1*
Dientamoeba*	Yersinia*	Norovirus GG2*
Cryptosporidium*	Campylobacter*	Rotavirus A*
Blastocystis*	Shigella*	Adenovirus F (40,41)*
ntamoeba iistolytica*	Salmonella*	Astrovirus*
	Plesiomonas	Sapovirus*
		Enterovirus*



KPC	Zika*
NDM1	Dengue
OXA-48	Chikungunya
OXA-23	Plasmodium genus
GES	EHEC
INAD	LITEO
IMP	STX1-EHEC

Carbapenemase

Antimicrobial Resistance Non-Culturable

Mycoplasma Macrolide

MCR-1*

VIM

New Born

TREC KREC

Filovirus

Ebola Zaire*

T. Whipplei Bac. Meningitis

STX2-EHEC

Tropical

Escherichia coli uidA Listeria

monocytogenes Streptococcus pneumoniae

Neisseria meningitidis

Streptococcus agalactiae Haemophilus influenzae

+484K+501Y

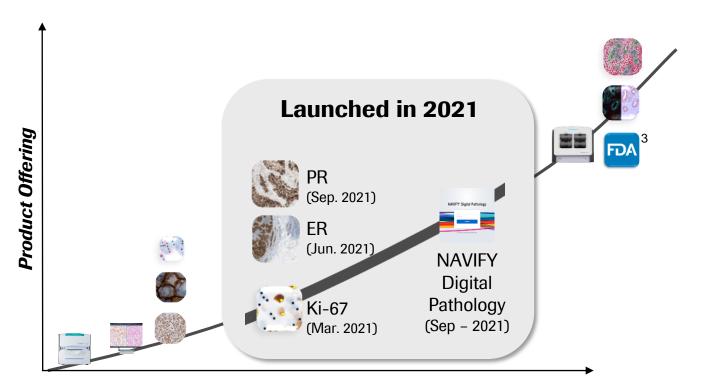
¹ subject to regulatory clearance and closing; * CE-marked; RUO=Research Use Only



Roche Digital Pathology

Launching new breast panel algorithms and providing a powerful open environment for AI integration for pathologists

Expanding portfolio offering



- Enables the integration of third party algorithms into the NAVIFY Digital Pathology software¹
- Provides a broader set of diagnostic tools both on premise and via cloud
- New Roche algorithms use whole slide analysis with state of the art deep learning Al
- Complete breast cancer algorithm panel²
 allows for faster and more accurate diagnosis

Time

Key launches 2021 Area

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Area		Product	Description	Market ¹	l .
	Core Lab	cobas® pure integrated solutions	Low-to-medium volume SWA	CE	✓
	GOIE Lab	cobas® pro integrated solutions	New high throughput configurations of the cobas pro instrument	US & CE	~
	Point of Care	cobas [®] pulse	Successor of Accu-Chek® Inform II	CE	
Instruments	Molecular	cobas® 5800	Fully automated low throughput PCR system	CE	
	Lab	AVENIO Edge System	Automated sequencing library preparation and target enrichment instrument	WW	
	Diabetes Care	Accu-Chek Instant	New features for the monitoring system to increase performance and user experience	WW	~
		Elecsys® SARS-CoV-2 Antigen	Automated laboratory assay intended as an aid in the diagnosis of SARS-CoV-2 infection	US	
Tests	Core Lab	Elecsys® NT-proBNP IU extensions in Heart Failure extension for Atrial Fibrillation Elecsys® TnT-hs 3 claim extensions in Coronary Arterial Disease	A set of 5 intended use extensions in the Coronary Arterial Disease, Atrial Fibrillation and Heart Failure Space	CE	~
	Molecular	AVENIO FoundationOne kit (RUO)	Decentralized kit of the FoundationOne test	WW	
	Lab	KAPA HyperPETE kit	New targeted sequencing portfolio using primer extension for small targets	WW	
	Pathology	uPath 2.0	First IVD release and version of Open API of the clinical pathologist workflow module for NAVIFY Digital Pathology & on-premise uPath	WW	
	Lab	RUO Algorithms	Whole slide image analysis algorithms (ER (SP1), Ki-67 (30-9), and PR (1E2))	WW	/
	Inciahte	NAVIFY Oncology 1.0	Modular Oncology decision support solution	WW^3	
Digital	Insights	NAVIFY Pass 1.0	Solution for providers to communicate SARS-CoV-2 rapid antigen test results to a mobile app	US & CE ³	~
Solutions	Core Lab	Elecsys® GAAD Algorithm	Algorithm for early detection of HCC in patients with chronic liver disease.	CE	~
	Diabetes	RocheDiabetes RemoteCare	Module within the RocheDiabetes Care Platform enabling remote interactions between HCPs and patients, including a patient dashboard, check-in and chat functionality	WW ³	
	Care	Accu-Chek SugarView	Meter-free blood glucose testing using a smartphone app and test strips	OUS ³	39



Finance

Alan Hippe Chief Financial Officer



YTD Sep 2021: Highlights



Sales

• Group sales growth (+8%) driven by Diagnostics (+39%)

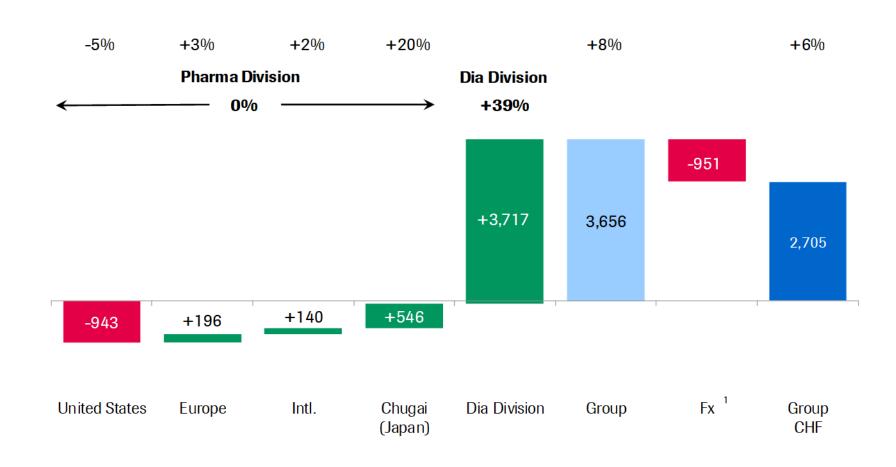
Currency impact on sales

• Negative currency impact due to most currencies, particularly USD



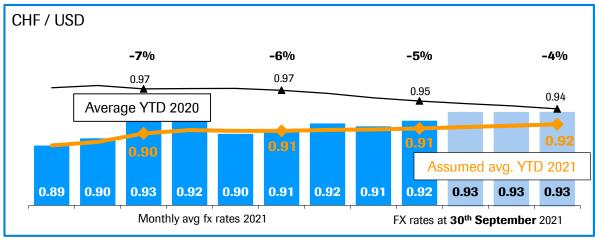


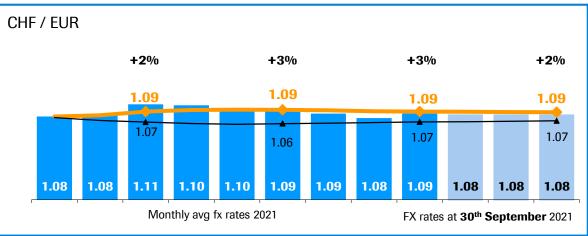
CER sales up by +8% driven by Diagnostics Division



Currency impact expected to reduce as 2021 progresses







Assuming the 30 Sep 2021 exchange rates remain stable until end of 2021, 2021 impact ¹ is expected to be (%p):

	Q1	HY	Sep YTD	FY
Sales	-4	-3	-2	-1
Core operating profit		-5		-2
Core EPS		-5		-2

¹ On group growth rates 43

Upcoming Virtual Event





Digitalization along the value chain

Wednesday, 17 November 2021

16:00 - 17:30 CET / 15:00 - 16:30 GMT

Presenters:

Alan Hippe, Chief Financial and IT Officer Roche
Mark McCarthy, Executive Director Human Genetics, gRED
Christian Gossens, Digital Biomarkers, Global Area Head, pRED
Jacqueline Law, Vice President, Head of Corporate Strategy, Flatiron Health
Steve Guise, Global Head, Pharma Informatics

Moritz Hartmann, Global Head of Roche Information Solutions, Roche Diagnostics



2021 outlook raised

Sales growth to "mid-single digit" from "low- to mid-single digit"

Group sales growth¹

Mid-single digit (from low- to mid-single digit)

Core EPS growth¹

· Broadly in line with sales growth

Dividend outlook

Further increase dividend in Swiss francs





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IN	ew to	phase I	

2 NMEs:

RG6035 brainshuttle (BS)-CD20 - multiple sclerosis

RG6440 TGFβ (SOF10) - solid tumors

New to phase II

2 NMEs:

RG6149 astegolimab (Anti-ST2) - chronic obstructive pulmonary disease **RG6416** bepranemab (Anti-tau) - AD

2 Als:

RG6171 giredestrant (SERD) – ER+ adj BC **RG6168** Enspryng – Myasthenia Gravis

New to phase III

New to registration

1 NME:

RG6413+RG6412 Ronapreve SARS-CoV-2 prophylaxis and ambulatory (EU)

1 AI:

RG1569 Actemra COVID-19 pneumonia (EU)

Removed from phase I

Removed from phase II

Removed from phase III

Approvals

1 Al approved in US:

RG7446 Tecentriq NSCLC adj

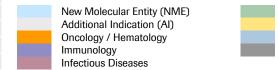
Roche Group development pipeline



Phase I (41 NMEs + 12 Als)

RG6007	HLA-A2-WT1 x CD3	AML
RG6026	glofitamab monotherapy and co	mbos heme tumors
RG6058	tiragolumab combos	heme & solid tumors
RG6076	CD19-4-1BBL	heme tumors
RG6115	TLR7 agonist (4)	HCC
RG6160	cevostamab (FcRH5 x CD3)	r/r MM
RG6171	giredestrant (SERD)	ER+/HER2- BC
RG6180	autogene cevumeran±T	solid tumors
RG6185	belvarafenib (pan-RAF inh)+Cot	ellic solid tumors
RG6189	FAP-CD40	solid tumors
RG6194	runimotamab (HER2 x CD3)	BC
RG6232	TYRP1 x CD3	metastatic melanoma
RG6234	-	multiple myeloma
RG6279	PD1-IL2v	solid tumors
RG6286	-	colorectal cancer
RG6290	MAGE-A4 ImmTAC	solid tumors
RG6292	CD25 MAb ± T	solid tumors
RG6323	IL15/IL15Ra-Fc	solid tumors
RG6330	KRAS G12C	solid tumors
RG6433	SHP2i	solid tumors
RG6440	TGFβ (SOF10)	solid tumors
RG7440	ipatasertib + rucaparib	mCRPC, solid tumors
RG/440	ipatasertib p	prostate cancer, pretreated
RG7446	Morpheus platform	solid tumors
NG/440	T + Venclexta	maintenance 1L ES-SCLC
	Venclexta + AMG176	AML
RG7601	Venclexta ± azacitidine	r/r MDS
	Venclexta + gilteritinib	r/r AML
RG7802	cibisatamab ± T	solid tumors
RG7827	FAP-4-1BBL + combos	solid tumors
RG7828	mosunetuzumab monotherapy +	- combos heme tumors
T_Tacantria DC	- Drain abuttle	

CHU	FIXa x FX	haemophilia
CHU	glypican-3 x CD3	solid tumors
CHU	codrituzumab	HCC
CHU	CD137 switch antibody	solid tumors
CHU	-	solid tumors & endometriosis
SQZ	PBMC vaccine	solid tumors
RG6287	-	IBD
RG6418	NLRP3 inh	inflammation
RG6315	-	immunologic disorders
RG6006	Abx MCP	bacterial infections
RG6084	PD-L1 LNA	HBV
RG6338	-	metabolic diseases
RG6035	BS-CD20	multiple sclerosis
RG6091	UBE3A LNA	Angelman syndrome
RG6182	-	neurodegenerative diseases
RG6237	-	neuromuscular disorders
RG7637	-	neurodevelopmental disorders
RG6120	VEGF-Ang2 DutaFab	nAMD
RG6179	-	DME
RG6312	-	geographic atrophy
RG7921	-	nAMD
CHU	PTH1 recep. ago	hypoparathyroidism



RG-No - Roche/Genentech CHU - Chugai managed IONIS - IONIS managed

SQZ - SQZ Biotechnology managed

Metabolism

Other

Neuroscience

Ophthalmology

¹One Al combination previously contributing as two entities ²combination platform

Phase II (26 NMEs + 12 Als)

	tiragolumab + T	NSCLC
	tiragolumab + T + chemo	1L non-squamous NSCLC
RG6058	tiragolumab + T + chemo	neoadj-adj NSCLC
	tiragolumab + T	cervical cancer
	tiragolumab + T	1L PD-L1+ mSCCHN
RG6139	PD1 x LAG3	solid tumors
RG6171	giredestrant (SERD)	neoadjuvant ER+ BC
Naorzi	giredestrant (SERD)	2/3L ER+/HER2- mBC
RG6180	autogene cevumeran + pembro	olizumab 1L melanoma
RG6354	rhPTX-2 (PRM-151)	myelofibrosis
RG6357	SPK-8011	hemophilia A
RG6358		with inhibitors to factor VIII
RG7601	Venclexta + carfilzomib	r/r MM t(11;14)
RG7769	PD1 x TIM3	solid tumors
CHU	Oncolytic Type 5 adenovirus	esophageal cancer
RG6149	astegolimab (Anti-ST2)	COPD
RG6173	anti-tryptase	asthma
RG7835	lgG-IL2	autoimmune diseases
RG7880	efmarodocokin alfa	inflammatory diseases
IONIS	ASO factor B	IgA nephropathy
RG6413+RG6412 ¹	Ronapreve	SARS-CoV-2 hospitalised
RG7854/RG7907/ RG6346 ²	TLR7 ago(3)/CpAM (2)/siRNA	HBV
RG6359	SPK-3006	Pompe disease
RG7992	FGFR1 x KLB MAb	NASH
RG6100	semorinemab	Alzheimer's
RG6102	BS-gantenerumab	Alzheimer's
RG6416	bepranemab	Alzheimer's
RG6356	micro-dystrophin (SRP-9001)	DMD
RG7412	crenezumab fam	nilial Alzheimer's healthy pts
RG7816	GABA Aa5 PAM	ASD
RG7906	ralmitaront	schizophrenia
RG7935	prasinezumab	Parkinson's
RG6147	HtrA1	geographic atrophy
RG6367	SPK-7001	choroideremia
RG7774	-	retinal disease
IONIS	ASO factor B	geographic atrophy

T=Tecentriq, BS=Brain shuttle

Roche Group development pipeline



Phase III (13 NMEs + 39 Als)

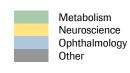
RG3502	Kadcyla + T	2L+ HER-2+ PD-L1+ mBC
Kadcyla + T		HER-2+ eBC high-risk
RG6013	Hemlibra	mild to moderate hemophilia A
RG6026**	glofitamab + chemo	2L+ DLBCL
	tiragolumab + T + o	chemo 1L SCLC
	tiragolumab + T	1L PD-L1+ NSCLC
RG6058	tiragolumab + T	locally advanced esophageal cancer
	tiragolumab + T	1L esophageal cancer
	tiragolumab + T	stage III unresectable 1L NSCLC
RG6107	crovalimab	PNH
RG6114	inavolisib (mPI3K al	pha inh) 1L HR+ mBC
RG6171	giredestrant (SERD)	ER+/HER2- mBC
NG0171	giredestrant (SERD)	adj ER+ BC
RG6268	Rozlytrek ROS1+	1L NSCLC
RG7440	ipatasertib + abirate	erone 1L CRPC
RG7596	Polivy	1L DLBCL
	Tecentriq + platinui	n chemo NSCLC neoadj
	Tecentriq	NMIBC, high risk
	Tecentriq	RCC adj
	Tecentriq + caboza	ntinib advanced RCC
	Tecentriq + caboza	ntinib 2L NSCLC
RG7446	T ± chemo	SCCHN adj
1107440	T + capecitabine or	carbo/gem 1L TNBC
	T + paclitaxel	TNBC adj
	T + Avastin	HCC adj
	T ± chemo	1L mUC
	Tecentriq	SC NSCLC
	Tecentriq	ctDNA+ high-risk MIBC

	Manala In	./. В АВ А 1611 1/2
RG7601	Venclexta	r/r MM t(11:14)
	Venclexta + azacitidine	1L MDS
RG7828**	mosunetuzumab + lenali	domide 2L+ FL
RG7853	Alecensa	ALK+ NSCLC adj
RG3648	Xolair	food allergy
RG6354	rhPTX-2 (PRM-151)	idiopathic pulmonary fibrosis
RG7159	Gazyva	lupus nephritis
NG/109	Gazyva	membranous nephropathy
RG7413	etrolizumab	Crohn's
	Xofluza	influenza, pediatric (0-1 year)
RG6152	Xofluza	influenza, pediatric (1-12 years)
	Xofluza	influenza direct transmission
RG6422	AT-527	SARS-CoV-2
RG1450	gantenerumab	Alzheimer's
RG1594	Ocrevus higher dose	RMS & PPMS
RG6042	tominersen	Huntington's
RG6168	Enspryng	Myasthenia Gravis
RG7845	fenebrutinib	PPMS
RG7845	fenebrutinib	RMS
	port delivery system with	ranibizumab DME
RG6321	port delivery system with	ranibizumab DR
	port delivery system with	ranibizumab wAMD, 36-week
RG7716	faricimab	BRVO
NG//10	faricimab	CRVO

Registration (4 NMEs + 4 Als)

RG6396	Gavreto (pralsetinib) 1	RET+ NSCLC
NG0390	Gavreto (pralsetinib) ²	RET+ MTC
RG7446	Tecentriq ²	NSCLC adj
RG6321	port delivery system with ranib	izumab wAMD
RG7716	faricimab	DME
NG//10	faricimab	wAMD
RG6413+	Damana3	SARS-CoV-2 prophylaxis
RG6412*	Ronapreve ³	and ambulatory
RG1569	Actemra ³	COVID-19 pneumonia





¹ Approved in US, filed in EU

² Approved in US

³ Filed in the EU

T=Tecentriq

^{*}One NME combination previously contributing as two entities

^{**} phl safety run-in ongoing



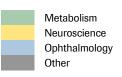
NME submissions and their additional indications

Proj	Projects in phase II and III						glofitamab + chemo 2L DLBCL	RG6180	autogene cevumeran 1L melanoma		
						RG6058	tiragolumab + T 1L PD-L1+ cervical ca	RG6354	rhPTX-2 (PRM-151) myelofibrosis	RG6100	semorinemab Alzheimer's
		RG6026	glofitamab 3L+ DLBCL			RG6058	tiragolumab + T locally adv esophageal cancer	RG7769	PD1xTIM3 solid tumors	RG6102	brain shuttle gantenerumab Alzheimer's
		RG6058	tiragolumab + Tecentriq (T) 1L SCLC			RG6058	tiragolumab + T Stage III unresectable 1L NSCLC	RG7828	mosunetuzumab + lenalidomide 2L FL	RG6356	micro-dystrophin SRP-9001 DMD
RG7828	mosunetuzumab 3L+ FL Ronapreve	RG6107	crovalimab PNH¹	RG6058	tiragolumab + T 1L PD-L1+ NSCLC	RG6058	tiragolumab + T 1L non-sq NSCLC	RG6149	astegolimab (anti-ST2) COPD	RG7816	GABA Aa5 PAM ASD
RG6413+ RG6412	SARS-CoV-2 prophylaxis and ambulatory √	RG6171	giredestrant (SERD) 2L/3L ER+/HER2- mBC	RG6058	tiragolumab + T 1L esophageal cancer ¹	RG6058	tiragolumab + T 1L PD-L1+ mSCCHN	RG6173	Anti-tryptase asthma	RG7845	fenebrutinib PPMS
RG6413+ RG6412	Ronapreve SARS-CoV-2 hospitalised	RG7440	ipatasertib + abiraterone 1L CRPC	RG6114	inavolisib (mPI3K alpha inh) 1L HR+ BC	RG6058	tiragolumab+T+/- chemo neoadj/adj NSCLC	RG6354	rhPTX-2 (PRM-151) IPF	RG7845	fenebrutinib RMS
RG6321	port delivery system with ranibizumab wAMD √	RG7413	etrolizumab Crohn's	RG6321	port delivery system with ranibizumab DME	RG6139	PD1xLAG3 solid tumors	RG7880	efmarodocokin alfa (IL22-Fc) inflammatory diseases	RG7906	ralmitaront schizophrenia
RG7716	faricimab DME √	RG6422	AT-527 SARS-CoV-2	RG6321	port delivery system with ranibizumab DR	RG6171	giredestrant (SERD) 1L ER+/HER2- mBC	RG7907/ RG7854/ RG6346	TLR7 ago (3)/ CpAM (2) /siRNA HBV	RG7935	prasinezumab Parkinson's
RG7716	faricimab wAMD √	RG1450	gantenerumab Alzheimer's	RG7716	faricimab BRVO/CRVO	RG6171	giredestrant (SERD) Adj ER+ BC	RG7992	FGFR1 x KLB MAb NASH	RG6321	port delivery system with ranibizumab wAMD, 36-week refill

2021

2022





2024 and beyond

49 Status as of October 20, 2021

2023

[√] Indicates submission to health authorities has occurred Unless stated otherwise submissions are planned to occur in US and EU ¹ First filing in China



Al submissions for existing products Projects in phase II and III

				RG6152	Xofluza direct transmission				
				RG6152	Xofluza influenza, pediatric (0-1 year)	Addition	nal Indication (AI)	mmunology nfectious Diseases ⁄Ietabolism	Neuroscience Ophthalmology Other
				RG3648	Xolair Food allergy				
				RG7446	Tecentriq SC NSCLC				
				RG7446	Tecentriq + cabozantinib 2L NSCLC				
RG6152	Xofluza influenza, pediatric (1-12 yrs)			RG7446	Tecentriq + cabozantinib adv RCC	RG3502	Kadcyla + Tecentriq 2L+ HER-2+ PD-L1+ mBC		
RG1569	Actemra ^{1,2} COVID-19 pneumonia √	RG6396	Gavreto (pralsetinib) Tumour agnostic	RG7446	Tecentriq + Avastin HCC adj	RG3502	Kadcyla + Tecentriq HER-2+ eBC high-risk		
RG6013	Hemlibra Mild to moderate hemophilia A (EU)	RG7446	Tecentriq RCC adj	RG7446	Tecentriq² NSCLC neo adj	RG7446	Tecentriq + paclitaxel TNBC adj	RG7159	Gazyva lupus nephritis
RG7446	Tecentriq NSCLC adj √	RG7446	Tecentriq ± chemo 1L mUC	RG7601	Venclexta r/r MM t(11:14)	RG7446	Tecentriq High risk NMIBC	RG7159	Gazyva membranous nephropathy
RG7596	Polivy 1L DLBCL	RG7853	Alecensa ALK+ NSCLC adj	RG7601	Venclexta + azacitidine 1L MDS	RG7446	Tecentriq + chemo SCCHN adj	RG1594	Ocrevus higher dose RMS & PPMS
RG6396	Gavreto (pralsetinib) RET+ MTC (EU)	RG6268	Rozlytrek (BFAST) 1L NSCLC ROS1+	RG7446	Tecentriq + capecitabine or carbo/gem TNBC	RG7446	Tecentriq ctDNA+ high-risk MIBC	RG6168	Enspryng Myasthenia Gravis

2023

2024 and beyond

2022

2021

Major pending approvals 2021



	US		EU		China	Ja	apan-Chuga	ni
RG6321	PDS with ranibizumab wAMD Filed April 2021	RG6396	Gavreto (pralsetinib) RET+ NSCLC Filed May 2020	RG7446	Tecentriq NSCLC adj Filed June 2021	RG7716	faricimab DME Filed June 202	21
RG7716	faricimab DME Filed May 2021	RG7446	Tecentriq NSCLC adj Filed June 2021			RG7716	faricimab wAMD Filed June 202	21
RG7716	faricimab wAMD Filed May 2021	RG6321	PDS with ranibizumab wAMD Filed April 2021			RG7446	Tecentriq NSCLC adj Filed July 202	1
		RG7716	faricimab DME Filed May 2021			RG6413+ RG6412	Ronapreve SARS-CoV-2 prophylaxis and am	<u>e</u> bulatory
		RG7716	faricimab wAMD Filed May 2021				Filed Sept 202	21
		RG6413+ RG6412	Ronapreve SARS-CoV-2 prophylaxis and ambulatory Filed Sept 2021					
		RG1569	Actemra COVID-19 pneumonia Filed Sept 2021					
							olecular Entity (NME)	Metabolism
							nal Indication (AI) yy / Hematology	Neuroscience Ophthalmology
						Immuno		Other
PDS=port deliver	y system						us Diseases	

Status as of October 20, 2021

Major granted approvals 2021



52

	US		EU		China	J	apan-Chu	gai
RG7853	Alecensa (BFAST) 1L NSCLC ALK+ Jan 2021	RG6152	Xofluza influenza, otherwise healthy Jan 2021	RG6152	Xofluza influenza, otherwise healthy April 2021	RG7596	Polivy r/r DLB0 March 20	CL
RG1569	Actemra SSc-ILD March 2021	RG6152	Xofluza influenza, high risk Jan 2021	RG6152	Xofluza influenza, high risk April 2021	RG7916	Evrysc SMA June 20	
RG3648	Xolair Self-injection April 2021	RG6152	Xofluza post exposure prophylaxis Jan 2021	RG6013	Hemlibra Hemophilia A April 2021	RG6413+ RG6412	Ronapr SARS-Co July 20	V-2
RG7446	Tecentriq NSCLC adj Oct 2021	RG7916	Evrysdi SMA March 2021	RG7446	Tecentriq 1L non-sq + sq NSCLC Dx+ April 2021	RG105	Rituxa systemic so Sep 20	ı n Ierosis
		RG6168	Enspryng NMOSD June 2021	RG6168	Enspryng NMOSD April 2021		·	
		RG7446	Tecentriq 1L non-sq + sq NSCLC Dx+ May 2021	RG7916	Evrysdi SMA May 2021			
		RG7601	Venclexta+ azacitidine 1L AML	RG3502	Kadcyla 2L HER2+ BC June 2021			
			May 2021	RG7159	Gazyva 1L FL and r/r FL June 2021			
				RG7446	Tecentriq + pemetrexed 1L non-sq NSCLC June 2021		lecular Entity (NME) al Indication (AI)	Metabolism Neuroscience
						Immunol		Ophthalmology Other
						Infectious	s Diseases	

Status as of October 20, 2021



Pipeline summary

Marketed products additional indications

Global Development late-stage trials

pRED (Roche Pharma Research & Early Development)

gRED (Genentech Research & Early Development)

Spark

Roche Group YTD Sep 2021 sales

Diagnostics

Foreign exchange rate information

Hemlibra



Factor VIII mimetic for treatment of hemophilia A

Indication	Hemophilia A patients without inhibitors to factor VIII	Hemophilia A patients with and without inhibitors to Factor VIII, dosing every 4 weeks
Phase/study	Phase III HAVEN 3	Phase III HAVEN 4
# of patients	N=135	N=46
Design	Patients on FVIII episodic treatment prior to study entry: • ARM A: Hemlibra prophylaxis qw • ARM B: Hemlibra prophylaxis q2w • ARM C: Episodic FVIII treatment; switch to Hemlibra prophylaxis possible after 24 weeks Patients on FVIII prophylaxis prior to study entry: • ARM D: Hemlibra prophylaxis qw	Multicenter, open-label, non-randomized study to assess the efficacy, safety, pharmacokinetics, and pharmacodynamics of Hemlibra administered every 4 weeks. • Part 1: Pharmacokinetic (PK) run-in part (N=6) • Part 2: Expansion part (N=40)
Primary endpoint	Number of bleeds over 24 weeks	Number of bleeds over 24 weeks
Status	 FPI Q3 2016, recruitment completed Q2 2017 Study met primary and key secondary endpoints Q4 2017 FDA granted Breakthrough Therapy Designation April 2018 Data presented at WFH 2018 Filed in US (priority review) and EU in Q2 2018 Data published in <i>NEJM</i> 2018; 379: 811-822 	 FPI Q1 2017, recruitment completed Q2 2017 PK run-in data at ASH 2017 Positive interim analysis outcome reported Q4 2017 Data presented at WFH 2018 Interim data filed in US and EU in Q2 2018 Data published in Lancet Haematology 2019 Jun;6(6):e295-e305
	-Approved in US Q4	2018 and EU Q1 2019
CT Identifier	NCT02847637	NCT03020160

Hemlibra



Factor VIII mimetic for treatment of hemophilia A

Indication	Hemophilia A patients with and without inhibitors to Factor VIII	Hemophilia A mild to moderate patients without inhibitors to Factor VIII
Phase/study	Phase III HAVEN 5	Phase III HAVEN 6
# of patients	N=85	N=70
Design	Patients with Hemophilia regardless of FVIII inhibitor status on prophylactic or episodic treatment prior to study entry: • Arm A: emicizumab prophylaxis qw • Arm B: emicizumab prophylaxis q4w • Arm C: No prophylaxis (control arm)	Multicenter, open-label study to evaluate the safety, efficacy, pharmacokinetics, and pharmacodynamics of Hemlibra in patients with mild or moderate Hemophilia A without FVIII inhibitors
Primary endpoint	 Number of bleeds over 24 weeks 	■ Safety and efficacy
Status	 FPI Q2 2018 Recruitment completed Q1 2019 Filed in China Q2 2020 Approved in China Q2 2021 	 FPI Q1 2020 Recruitment completed Q1 2021
CT Identifier	NCT03315455	NCT04158648

In collaboration with Chugai

Alecensa



New CNS-active inhibitor of anaplastic lymphoma kinase

Indication	Treatment-naïve ALK+ advanced NSCLC	Adjuvant ALK+ NSCLC
Phase/study	Phase III ALEX	Phase III ALINA
# of patients	N=286	N=255
Design	ARM A: Alecensa 600mg BIDARM B: Crizotinib 250mg BID	 ARM A: Alecensa 600 mg BID ARM B: Platinum-based chemotherapy
Primary endpoint	■ Progression-free survival	Disease-free survival
Status	 Recruitment completed Q3 2015 Primary endpoint met Q1 2017 Data presented at ASCO 2017, 2018, ESMO 2017, 2018 Data published in <i>NEJM</i> 2017; 377:829-838 CNS data presented at ESMO 2017 Final PFS and updated OS presented at ESMO 2019 Approved in US Q4 2017 (priority review) and in EU Q4 2017 	• FPI Q3 2018
CT Identifier	NCT02075840	NCT03456076

Kadcyla



First ADC for HER2-positive breast cancer

Indication	HER2-positive early breast cancer high-risk patients	2L+ HER-2 positive PD-L1 positive mBC	HER2-positive early breast cancer high-risk patients
Phase/study	Phase III KATHERINE	Phase III KATE 3	Phase III ASTEFANIA
# of patients	N=1,484	N=350	N=1,590
Design	ARM A: Kadcyla 3.6mg/kg q3wARM B: Herceptin	 ARM A: Kadcyla plus Tecentriq ARM B: Herceptin plus placebo 	 ARM A: Kadcyla plus Tecentriq ARM B: Kadcyla plus placebo
Primary endpoint	 Invasive disease-free survival 	 Progression-free survival and overall survival 	 Invasive disease-free survival
Status	 Recruitment completed Q4 2015 Stopped at pre-planned interim data analysis for efficacy Q4 2018 Data presented at SABCS 2018 BTD granted by FDA in Q1 2019 US filling completed under RTOR Q1 2019 and filed in EU Q1 2019 Approved in US Q2 2019 and in EU Q4 2019 Data published in <i>NEJM</i> 2019; 380:617-628 	• FPI Q1 2021	■ FPI Q2 2021
CT Identifier	NCT01772472	NCT04740918	NCT04873362

Perjeta

Roche

First-in-class HER2 dimerization inhibitor

Indication	Adjuvant HER2-positive breast cancer	HER2-positive early breast canc	arly breast cancer subcutaneous co-formulation		
Phase/study	Phase III APHINITY	Phase III FeDeriCa	Phase II PHranceSCa		
# of patients	N=4,803	N=500	N=160		
Design	 ARM A: Perjeta (840mg loading, 420 q3w) plus Herceptin for 52 weeks plus chemotherapy (6-8 cycles) ARM B: Placebo plus Herceptin (52 weeks) plus chemotherapy (6-8 cycles) 	Fixed-dose combination (FDC) of Perjeta (P) and Herceptin (H) for subcutaneous administration in combination with chemotherapy in neoadjuvant/adjuvant setting • ARM A: P IV+H IV+chemotherapy • ARM B: FDC of PH SC+chemotherapy	• ARM A: PH IV followed by FDC SC • ARM B: PH FDC SC followed by IV		
Primary endpoint	Invasive disease-free survival (IDFS)	 Trough Serum Concentration (Ctrough) of Pertuzumab during cycle 7 	 Percentage who preferred PH FDC SC 		
Status	 Primary endpoint met Q1 2017 Data presented at ASCO 2017 and published in NEJM 2017; 377:122-131 Filed in US and EU Q3 2017 Approved in US Q4 2017 (priority review) and EU Q2 2018 	 Primary endpoint met Q3 2019 Data presented at SABCS 2019 Data published in Lancet Oncology 2021 Jan;22(1):85-97 Filed in US Dec 2019 & in EU Jan 2020; Approve 	 FPI Q4 2018 Final analysis completed, 85% patients preferred FDC SC Data presented at ESMO 2020 ed in US Q2 2020 and EU Q4 2020 		
	 Six year IDFS data presented at SABCS 2019 				
CT Identifier	NCT01358877	NCT03493854	NCT03674112		



Anti-PD-L1 cancer immunotherapy – lung cancer

Indication	1L extensive-stage SCLC	2L NSCLC previously treated with an immune checkpoint inhibitor
Phase/study	Phase Ib	Phase III CONTACT-01
# of patients	N=62	N=350
Design	 Carboplatin and etoposide +/- Tecentriq followed by maintenance Tecentriq plus Venclexta 	 ARM A: Tecentriq plus cabozantinib ARM B: Docetaxel
Primary endpoint	Safety and efficacy	Overall survival
Status	• FPI Q3 2020	• FPI Q3 2020
CT Identifier	NCT04422210	NCT04471428



Anti-PD-L1 cancer immunotherapy – lung cancer

Indication	Adjuvant NSCLC	Neoadjuvant NSCLC
Phase/study	Phase III IMpower010	Phase III IMpower030
# of patients	N=1,280	N=450
Design	Following adjuvant cisplatin-based chemotherapy • ARM A: Tecentriq • ARM B: Best supportive care	 ARM A: Tecentriq plus platinum-based chemotherapy ARM B: Platinum-based chemotherapy
Primary endpoint	■ Disease-free survival	Event free survival
Status	 Trial amended from PD-L1+ selected patients to all-comers FPI for all-comer population Q4 2016 Recruitment completed Q3 2018 Study met primary endpoint Q1 2021 Data presented at ASCO, WCLC and ESMO 2021 Filed in US (priority review) and EU Q2 2021 Approved in US Oct 2021 	 FPI Q2 2018 Recruitment completed Q3 2021
CT Identifier	NCT02486718	NCT03456063

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Anti-PD-L1 cancer immunotherapy – lung cancer

	17 8	
Indication	1L NSCLC	Stage IV NSCLC
Phase/study	Phase II/III B-FAST	Phase Ib/III IMscin001 ¹
# of patients	N=660	N=375
Design	 Cohort A: ALK+ (Alecensa) Cohort B: RET+ (Alecensa) Cohort C: bTMB-high (Tecentriq) Cohort D: ROS1+ (Rozlytrek) Cohort E: BRAF+ (Zelboraf plus Cotellic plus Tecentriq) Cohort F: EGFR Exon 20+ (Tecentriq, Avastin, carboplatin, pemetrexed) 	 Phase Ib Dose finding, Tecentriq SC followed by Tecentriq IV Phase III 2L NSCLC non inferiority of Tecentriq SC vs Tecentriq IV
Primary endpoint	Cohort A/B: Objective response rateCohort C: Progression-free survival	 Observed concentration of Tecentriq in serum at cycle 1
Status	 FPI Q3 2017 Recruitment completed for cohort A Q3 2018 and cohort C Q3 2019 Cohort A: primary endpoint met Q3 2019; approved in US Q1 2021 Cohort C: did not show statistical significance for primary endpoint, data presented at ESMO 2021 Cohort F: FPI Q2 2021 	 FPI Q4 2018 FPI in phase III part Q4 2020
CT Identifier	NCT03178552	NCT03735121



Anti-PD-L1 cancer immunotherapy – SCCHN and melanoma

Indication	Adjuvant squamous cell carcinoma of the head and neck	First-line BRAFv600 mutation-positive metastatic or unresectable locally advanced melanoma
Phase/study	Phase III IMvoke010	Phase III IMspire150 TRILOGY ¹
# of patients	N=400	N=500
Design	 ARM A: Tecentriq 1200mg q3w ARM B: Placebo 	 Double-blind, randomized, placebo-controlled study ARM A: Tecentriq plus Cotellic plus Zelboraf² ARM B: Placebo plus Cotellic plus Zelboraf²
Primary endpoint	 Event-free survival and overall survival 	Progression-free survival
Status	 FPI Q1 2018 Recruitment completed Q1 2020 	 FPI Q1 2017 Recruitment completed Q2 2018 Primary endpoint met Q4 2019 Data presented at AACR 2020 Data published in Lancet;395(10240):1835-1844 Filed in US Q2 2020 under Project Orbis³ Approved in US Q3 2020
CT Identifier	NCT03452137	NCT02908672



Anti-PD-L1 cancer immunotherapy – UC

Indication	1L metastatic urothelial carcinoma	High-risk non-muscle-invasive bladder cancer	ctDNA+, high-risk muscle-invasive bladder cancer
Phase/study	Phase III IMvigor130	Phase III ALBAN	Phase III IMvigor011
# of patients	N=1,200	N=516	N=495
Design	 ARM A: Tecentriq plus gemcitabine and carboplatin or cisplatin ARM B: Tecentriq monotherapy ARM C: Placebo plus gemcitabine and carboplatin or cisplatin 	 ARM A: BCG induction and maintenance ARM B: Tecentriq+plus BCG induction and maintenance 	ARM A: TecentriqARM B: Placebo
Primary endpoint	 Progression-free survival, overall survival and safety 	 Recurrence-free survival 	 Recurrence-free survival
Status	 FPI Q3 2016 FPI for arm B (amended study) Q1 2017 Recruitment completed Q3 2018 Study met co-primary endpoint of PFS Q3 2019 Data presented at ESMO 2019 and AACR 2021 	▪ FPI Q4 2018	■ FPI Q2 2021
CT Identifier	NCT02807636	NCT03799835	NCT04660344

UC=urothelial carcinoma; BCG=Bacille Calmette-Guérin



Anti-PD-L1 cancer immunotherapy – renal cell cancer

Indication	Adjuvant renal cell carcinoma	Advanced renal cell carcinoma after immune checkpoint inhibitor treatment
Phase/study	Phase III IMmotion010	Phase III Contact-03 ¹
# of patients	N=778	N=500
Design	 ARM A: Tecentriq monotherapy ARM B: Placebo 	 ARM A: Tecentriq plus cabozantinib ARM B: Cabozantinib
Primary endpoint	Disease-free survival	 Progression-free survival and overall survival
Status	 FPI Q1 2017 Recruitment completed Q1 2019 	■ FPI Q3 2020
CT Identifier	NCT03024996	NCT04338269

¹In collaboration with Exelixis



Anti-PD-L1 cancer immunotherapy – HCC

Indication	1L hepatocellular carcinoma	Adjuvant hepatocellular carcinoma
Phase/study	Phase III IMbrave150	Phase III IMbrave050
# of patients	N=501	N=662
Design	 ARM A: Tecentriq plus Avastin ARM B: Sorafenib 	 ARM A: Tecentriq plus Avastin ARM B: Active surveillance
Primary endpoint	Overall survival and progression free survival	Recurrence-Free Survival (RFS)
Status	 FPI Q1 2018; recruitment completed Q1 2019 Data presented at ESMO Asia 2019 US filing completed under RTOR Q1 2020; filed in EU Q1 2020 Data published in <i>NEJM</i> 2020;382:1894-1905 Approved in US Q2 2020 and EU Q4 2020 	• FPI Q4 2019
CT Identifier	NCT03434379	NCT04102098



Anti-PD-L1 cancer immunotherapy – breast cancer

Indication	Previously untreated metastatic triple negative breast cancer		
Phase/study	Phase III IMpassion130 Phase III IMpassion132		
# of patients	N=900	N=572	
Design	 ARM A: Tecentriq plus nab-paclitaxel ARM B: Placebo plus nab-paclitaxel 	 ARM A: Tecentriq plus capecitabine or carbo/gem ARM B: Placebo plus capecitabine or carbo/gem 	
Primary endpoint	 Progression-free survival and overall survival (co-primary endpoint) 	Overall survival	
Status	 Study met co-primary endpoint of PFS in both PDL1+ and ITT populations Jul 2018 Primary PFS and interim OS data presented at ESMO 2018 and ASCO 2019 Data published in NEJM 2018; 379:2108-2121 US accelerated approval Q1 2019 - US indication voluntarily withdrawn Q3 2021 Approved in EU Q3 2019 Final OS presented at ESMO Asia 2020 	• FPI Q1 2018	
CT Identifier	NCT02425891	NCT03371017	



Anti-PD-L1 cancer immunotherapy – breast cancer

Indication	Neoadjuvant triple negative breast cancer	Adjuvant triple negative breast cancer
Phase/study	Phase III IMpassion031	Phase III IMpassion030
# of patients	N=324	N=2,300
Design	 ARM A: Tecentriq plus nab-paclitaxel ARM B: Placebo plus nab-paclitaxel 	 ARM A: Tecentriq + paclitaxel followed by AC followed by Tecentriq + AC, followed by Tecentriq maintenance ARM B: Placebo + paclitaxel followed by AC followed by placebo
Primary endpoint	 Percentage of participants with pathologic complete response (pCR) 	■ Invasive Disease Free Survival
Status	 FPI Q3 2017 Recruitment completed Q2 2018 Study met primary endpoint Q2 2020 Data presented at ESMO 2020 Data published in Lancet 2020;396 (10257):1090-1100 Filed in EU Q4 2020 - application withdrawn Aug 2021 	■ FPI Q3 2018
CT Identifier	NCT03197935	NCT03498716

ESMO=European Society for Medical Oncology



Novel small molecule Bcl-2 selective inhibitor – CLL

Indication	Untreated CLL patients with coexisting medical conditions	Relapsed or refractory CLL	Untreated fit CLL patients
Phase/study	Phase III CLL14	Phase III MURANO	Phase III CristaLLo
# of patients	N=432	N=391	N=165
Design	 ARM A: Venclexta plus Gazyva ARM B: Chlorambucil plus Gazyva 	 ARM A: Venclexta plus Rituxan ARM B: Rituxan plus bendamustine 	 ARM A: Venclexta plus Gazyva ARM B: Fludarabine + cyclophosphamide + Rituxan or bendamustine + Rituxan
Primary endpoint	 Progression-free survival 	 Progression-free survival 	 MRD negativity rate in peripheral blood at 15 months
Status	 Study met primary endpoint at pre-specified interim analysis Q4 2018 BTD granted by FDA Q1 2019 US filing completed under RTOR Q1 2019 Filed in EU Q2 2019 Data presented at ASCO 2019, ASH 2019, ASH 2020 and EHA 2021 Data published in <i>NEJM</i> 2019; 380:2225-2236 Approved US Q2 2019 and EU Q1 2020 	 Study met primary endpoint at interim analysis Data presented at ASH 2017 Filed in US Q4 2017 and EU Q1 2018 Data published in <i>NEJM</i> 2018; 378:1107–20 Updated data presented at ASCO 2018, ASH 2019 and ASH 2020 Approved in US Q2 2018 (priority review) EU approval Q4 2018 	■ FPI Q2 2020
CT Identifier	NCT02242942	NCT02005471	NCT04285567



Novel small molecule Bcl-2 selective inhibitor – MM

Indication	Relapsed or refractory multiple myeloma		
Phase/study	Phase I	Phase Ib/II	Phase III CANOVA
# of patients	N=166	N=120	N=244
Design	 Dose escalation cohort: Venclexta dose escalation Safety expansion cohort (t11;14): Venclexta expansion Combination: Venclexta plus dexamethasone 	 Venclexta plus carfilzomib plus dexamethasone in t(11;14) positive r/r MM 	 Venclexta plus dexamethazone vs pomalidomide plus dexamethasone in t(11;14) positive r/r MM
Primary endpoint	 Safety and maximum tolerated dose 	 Safety, objective response rate, PK, PD 	 Progression-free survival
Status	 FPI Q4 2012 Data presented at ASCO 2015 Updated data presented at ASCO 2016 and ASH 2016 Data published in Blood 2017; 130(22):2401-2409 	 FPI Q1 2017 Data published Blood Adv 2021 Sep 1; doi:10.1182/bloodadvances.2020004146 	■ FPI Q4 2018
CT Identifier	NCT01794520	NCT02899052	NCT03539744



Novel small molecule Bcl-2 selective inhibitor – AML

Indication	Relapsed or refractory AML	Relapsed or refractory hematological malignancies
Phase/study	Phase I	Phase I
# of patients	N=52	N=86
Design	Venclexta in combination with gilteritinib	 Venclexta plus AMG176 dose escalation Dose expansion phase to confirm safety and preliminary RPTD
Primary endpoint	 Dose and composite complete remission (CRc) Rate 	 Maximum tolerated dose and safety
Status	 FPI Q4 2018 Initial data presented at ASH 2019 Updated data presented at ASH 2020 	FPI Q2 2019Study on clinical hold
CT Identifier	NCT03625505	NCT03797261



Novel small molecule Bcl-2 selective inhibitor – MDS

Indication	Relapsed or refractory myelodysplastic syndromes	Treatment-naive myelodysplastic syndromes	Newly diagnosed higher-risk myelodysplatic syndrome
Phase/study	Phase Ib	Phase Ib	Phase III VERONA
# of patients	N=70	N=137	N=500
Design	Cohort 1: • ARM A: Venclexta 400 mg • ARM B: Venclexta 800 mg Cohort 2: • ARM A: Venclexta plus azacitidine Study expansion: • Venclexta or Venclexta plus azacitidine	 Dose escalation cohort: Venclexta plus azacitidine dose escalation Safety expansion cohort 	 ARM A: Venclexta plus azacitidine ARM B: Placebo plus azacitidine
Primary endpoint	Safety, efficacy, PK and PD	 Safety, PK, recommended phase II dose (RP2D) 	 Complete remission rate and overall survival
Status	• FPI Q1 2017	 FPI Q1 2017 Data presented at ASH 2019 Updated data presented at ASH 2020 BTD granted by FDA July 2021 	• FPI Q4 2020
CT Identifier	NCT02966782	NCT02942290	NCT04401748

Polivy (polatuzumab vedotin)



ADC targeting CD79b to treat B cell malignancies

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Indication	Relapsed or refractory FL and DLBCL	1L DLBCL
Phase/study	Phase Ib/II	Phase III POLARIX
# of patients	N=329	N=875
Design	 Plb: Dose escalation PhII: Polatuzumab vedotin plus BR vs. BR PhII expansion: Polatuzumab vedotin plus Gazyva (non-randomized) 	 ARM A: Polatuzumab vedotin plus R-CHP ARM B: R-CHOP
Primary endpoint	 Safety and response by PET/CT 	 Progression-free survival
Status	 FPI Q4 2014 PRIME Designation (Q2 2017) and Breakthrough Therapy Designation (Q3 2017) granted for r/r DLBCL Pivotal randomized Ph2 in r/r DLBCL presented at ASH 2017 and ASH 2020 Filed in US and EU Q4 2018; US priority review granted Q1 2019 Approved in US Q2 2019 and in EU Jan 2020 Published in J Clin Oncol. 2020 Jan 10;38(2):155-165 	 FPI Q4 2017 Recruitment completed Q2 2019 Study met primary endpoint Q3 2021
CT Identifier	NCT02257567	NCT03274492

In collaboration with Seagen Inc.

Rozlytrek (entrectinib)



CNS-active and selective inhibitor of NTRK/ROS1

Indication	Locally Advanced or Metastatic tumors with ROS1 gene rearrangement	Locally Advanced or Metastatic tumors with NTRK1/2/3 gene rearrangement	Pediatric tumors with NTRK 1/2/3, ROS-1 or ALK rearrangement
Phase/study	Phase II STARTRK2	Phase II STARTRK2	Phase I/Ib STARTRK - NG
# of patients	N~300 total	N~300 total	N~80
Design	Single arm with Baskets based on tumor type and genomic alteration status	Single arm with Baskets based on tumor type and genomic alteration status	Single arm with Baskets based on tumor type and genomic alteration status
Primary endpoint	 Objective response rate 	Objective response rate	 Maximum tolerated dose (MTD) and recommended phase II dose (RP2D)
	FPI Q1 2016Data presented at WCLC 2018	FPI Q1 2016Data presented at ESMO 2018	FPI Q2 2016Initial data presented at ASCO 2019
Status	 Breakthrough Therapy Designation granted by FDA (Q2 2017), PRIME designation granted by EMA (Q1 2018) and Sakigake Designation granted by MHLW (Q4 2017) for NTRK fusion-positive, locally advanced or metastatic solid tumors Filed in US Q4 2018 and EU Q1 2019 Approved in US Q3 2019 and EU Q3 2020 Published in Lancet Oncol. 2020 Feb;21(2):261-271 and 271-282 		
CT Identifier	NCT02568267	NCT02568267	NCT02650401

Gavreto (pralsetinib, RG6396)



Highly selective RET inhibitor

Indication	RET+ NSCLC, thyroid cancer and other advanced solid tumors	1L RET fusion-positive, metastatic NSCLC
Phase/study	Phase I/II ARROW	Phase III AcceleRET Lung
# of patients	N=647	N=250
Design	 Part 1: Gavreto 30-600mg dose-escalation Part 2: Gavreto 400mg dose expansion 	 Arm A: Gavreto 400mg Arm B: Platinum-based chemotherapy +/- pembrolizumab
Primary endpoint	Safety and efficacy	Progression-free survival
Status	 Data presented at ASCO (NSCLC) and ESMO (medullary thyroid cancer (MTC)) 2020 Filed in US and EU for RET fusion-positive NSCLC and US for RET-mutant MTC and RET fusion-positive thyroid cancer Approved in US Q3 2020 in RET fusion-positive NSCLC, in Q4 2020 in RET-mutant MTC and RET fusion-positive thyroid cancer Updated data presented at ASCO 2021 Data published in Lancet Oncol 2021 Jul;22(7):959-969 CHMP (EU) positive opinion for RET fusion-positive NSCLC Q3 2021 	Study initiated in Q1 2020
CT Identifier	NCT03037385	NCT04222972

Ocrevus (ocrelizumab, RG1594)



Humanized mAb selectively targeting CD20+ B cells

Indication	Relapsing multiple sclerosis (RMS)		Primary-progressive multiple sclerosis (PPMS)
Phase/study	Phase III OPERA I	Phase III OPERA II	Phase III ORATORIO
# of patients	N=821	N=835	N=732
Design	 96-week treatment period: ARM A: Ocrelizumab 2x300 mg iv followed by 600 mg iv every 24 weeks ARM B: Interferon β-1a 	 96-week treatment period: ARM A: Ocrelizumab 2x300 mg iv followed by 600 mg iv every 24 weeks ARM B: Interferon β-1a 	120-week treatment period:ARM A: Ocrelizumab 2x300 mg iv every 24 weeksARM B: Placebo
Primary endpoint	 Annualized relapse rate at 96 weeks versus Rebif 	 Annualized relapse rate at 96 weeks versus Rebif 	 Sustained disability progression versus placebo by Expanded Disability Status Scale (EDSS)
Status	 Primary endpoint met Q2 2015, OLE ongoing Primary data presented at ECTRIMS 2015 Updated data presented at AAN and ECTRIMS 2017, AAN and EAN 2018 Data published in NEJM 2017; 376:221-234 Data published on COVID-19 in Mult Scler Relat Disord on Ocrevus treated people with MS, doi.org/10.1016/j.msard.2020.102725 		 Primary endpoint met Q3 2015 Primary data presented at ECTRIMS 2015, updated data presented at AAN and ECTRIMS 2017, AAN and EAN 2018 Data published in NEJM 2017; 376:209-220
	 Approved in US Q1 2017 and EU C 		1 2018
CT Identifier	NCT01247324	NCT01412333	NCT01194570

Ocrevus (ocrelizumab, RG1594)



Humanized mAb selectively targeting CD20+ B cells

Indication	Relapsing and primary progressive multiple sclerosis (RMS & PPMS)	Primary progressive multiple sclerosis (PPMS)
Phase/study	Phase IIIb ENSEMBLE PLUS	Phase IIIb ORATORIO-HAND
# of patients	N=1225	N ~ 1000
Design	 Substudy of ongoing phase IIIb, open-label, single-arm ENSEMBLE study Shorter two-hour infusion time 	120-week treatment period:ARM A: Ocrelizumab 600mg IV every 24 weeksARM B: Placebo
Primary endpoint	 Safety, measured by the proportion of patients with IRRs following the first randomised 600 mg infusion (frequency/severity assessed during and 24-hours post infusion) 	■ Time to upper limb disability progression confirmed for at least 12 weeks
Status	 Filed in US and EU Q1 2020 Approved in EU Q2 2020 and US Q4 2020 Data published Neurol, Neuroimmunol and Neuroinflamm Sept 2020; 7(5), e807 	■ FPI Q3 2019
CT Identifier	NCT03085810	NCT04035005

Ocrevus (ocrelizumab, RG1594)



Humanized mAb selectively targeting CD20+ B cells

Indication	Primary progressive multiple sclerosis (PPMS)	Relapsing multiple sclerosis (RMS)
Phase/study	Phase IIIb GAVOTTE	Phase IIIb MUSETTE
# of patients	N ~ 699	N ~ 786
Design	 120-week treatment period: ARM A: Ocrelizumab 600mg IV every 24 weeks ARM B: Ocrelizumab 1200mg if body weight <75kg or 1800mg if body weight > or equal to 75kg every 24 weeks 	 120-week treatment period: ARM A: Ocrelizumab 600mg IV every 24 weeks ARM B: Ocrelizumab 1200mg if body weight <75kg or 1800mg if body weight > or equal to 75kg every 24 weeks
Primary endpoint	 Superiority of Ocrelizumab higher dose versus approved dose on composite confirmed disability progression (cCDP) 	 Superiority of Ocrelizumab higher dose versus approved dose on composite confirmed disability progression (cCDP)
Status	• FPI Q4 2020	■ FPI Q4 2020
CT Identifier	NCT04548999	NCT04544436

Evrysdi (risdiplam, RG7916)

Roche

Oral SMN2 splicing modifier

Indication	Spinal muscular atrophy			
Phase/study	Phase II/III FIREFISH	Phase II/III SUNFISH	Phase II JEWELFISH	
# of patients	N=21 (Part 1), 41 (Part 2)	N=51 (Part 1), 180 (Part 2)	N=174	
Design	Open-label study in infants with type 1 spinal musc atrophy: • Part 1 (dose-finding): At least 4 weeks • Part 2 (confirmatory): 24 months	Randomized, double-blind, placebo-control study in adult and pediatric patients with to 2 or type 3 spinal muscular atrophy: • Part 1 (dose-finding): At least 12 week • Part 2 (confirmatory): 24 months	/pe and pediatric patients with previously treated SMA type 1, 2 and 3	
Primary endpoint	 Safety, tolerability, PK, PD and efficacy 	 Safety, tolerability, PK, PD and efficacy 	Safety, tolerability and PK/PD	
Status	 12 month data from Part 1 presented at AAN, Cur and EAN 2019; 16 month data presented at WMS Study met primary endpoint in part 2 Jan 2020 Part 2 1-year data presented at AAN 2020, part 1 data at WMS 2020 Part 1 data published in <i>NEJM</i> 2021;384:915-923 Part 2 2-year data presented at AAN 2021 Part 2 1-year data published in NEJM 2021;385:42 	 12 month data from Part 1 presented at A CureSMA and EAN 2019; 16 month data presented at WMS 2019 Study met primary endpoint in part 2 Q4 in Part 2 1-year data presented at SMA Euro 2020 and 2-year data at MDA 2021 	AN, Data presented at WMS 2017, AAN 2018, WMS 2018, CureSMA 2019, WM 2019, CureSMA 2020 and 2021 *Recruitment completed Q1 2020	
	 Orphan drug designation granted by FDA Q1 2017 and EU Q1 2019, PRIME designation in Q4 2018 Approved in US Q3 2020 and EU Q1 2021 			
CT Identifier	NCT02913482	NCT02908685	NCT03032172	

Evrysdi (risdiplam, RG7916)



Oral SMN2 splicing modifier

Indication	Spinal muscular atrophy
Phase/study	Phase II RAINBOWFISH
# of patients	N=25
Design	Open-label, single-arm, multicenter study in infants aged from birth to 6 weeks who have been genetically diagnosed with SMA but are not yet presenting with symptoms
Primary endpoint	 Proportion of participants with two copies of the SMN2 gene (excluding the known SMN2 gene modifier mutation c.859G>C) and baseline CMAP>=1.5 millivolt who are sitting without support
Status	 FPI Q3 2019 Initial data presented at CureSMA and WMS 2021
CT Identifier	NCT03779334

Enspryng (satralizumab, RG6168, SA237)



Anti-IL-6 receptor humanized monoclonal antibody

Indication	Neuromyelitis optica spectrum disorder (NMOSD)		
Phase/study	Phase III SAkuraStar Phase III SAkuraSky		
# of patients	N=95	N=70 (adults); N=6 (adolescents)	
Design	Satralizumab as monotherapy: • Group A: Satralizumab 120mg SC monthly • Group B: Placebo SC monthly	 Add-on therapy of satralizumab: Group A: Satralizumab 120mg SC monthly Group B: Placebo SC Both arms on top of baseline therapies: azathioprine, mycophenolate mofetil or oral corticosteroids 	
Primary endpoint	Efficacy (time to first relapse) and safety, PD, PK	 Efficacy (time to first relapse) and safety, PD, PK 	
Status	 Primary endpoint met Q4 2018 Data presented at ECTRIMS 2019 Published in Lancet Neurology 2020; 19(5): 402-412 	 FPI Q3 2017 Primary endpoint met Q3 2018 Data presented at ECTRIMS 2018 and AAN 2019 Published in NEJM 2019; 381:2114-2124 	
	 BTD granted by FDA Q4 2018 Filed in EU Q3 2019; US acceptance of filing Q4 2019, Approved in US Q3 2020 and EU Q2 2021 		
CT Identifier	NCT02073279	NCT02028884	

^{*}Trials managed by Chugai (Roche opted-in)

Enspryng (satralizumab, RG6168, SA237)



Anti-IL-6 receptor humanized monoclonal antibody

Indication	Generalised Myasthenia Gravis
Phase/study	Phase III Luminesce
# of patients	N=240
Design	 Group A: Satralizumab plus SoC Group B: Placebo plus SoC
Primary endpoint	 Mean change from baseline in total MG-ADL score at week 24 in AChR+ population
Status	• FPI Oct 2021
CT Identifier	NCT04963270

Gazyva (obinutuzumab)



Immunology development program

Indication	Lupus nephritis		Membranous nephropathy
Phase/study	Phase II NOBILITY	Phase III REGENCY	Phase III MAJESTY
# of patients	N=126	N=252	N=140
Design	 ARM A: Obinutuzumab 1000mg IV plus mycophenolate mofetil / mycophenolic acid ARM B: Placebo IV plus mycophenolate mofetil / mycophenolic acid 	 ARM A: Obinutuzumab 1000 mg IV (six doses through Week 52) plus mycophenolate mofetil ARM B: Obinutuzumab 1000 mg IV (five doses through Week 52) plus mycophenolate mofetil ARM C: Placebo IV plus mycophenolate mofetil 	 ARM A: Obinutuzumab 1000 mg IV dosed at baseline and weeks 0, 2, 24, and 26 on top of renin-angiotensin inhibitors ARM B: Tacrolimus treatment for 12 months
Primary endpoint	 Percentage of participants who achieve complete renal response (CRR) 	 Percentage of participants who achieve complete renal response (CRR) 	 Percentage of patients who achieve complete remission at week 104
Status	 Recruitment completed Q4 2017 Primary endpoint met Q2 2019 Breakthrough therapy designation granted by the FDA Q3 2019 Data presented at ASN and ACR 2019 	■ FPI Q3 2020	• FPI Q2 2021
CT Identifier	NCT02550652	NCT04221477	NCT04629248

Actemra/RoActemra (RG-1569)



Interleukin 6 receptor inhibitor

Indication	Adult hospitalised with severe COVID-19 pneumonia	
Phase/study	Phase III Phase III COVACTA¹ REMDACTA²	
# of patients	N=450	N=650
Design	 Arm A: tocilizumab plus standard of care Arm B: placebo plus standard of care 	 Arm A: remdesivir plus tocilizumab Arm B: remdesivir plus placebo
Primary endpoint	 Clinical status assessed using 7-Category Ordinal Scale (Day 28) Primary endpoint not met Q3 2020 	 Time to hospital discharge or ready for discharge
Status	 FPI Q1 2020 Recruitment completed Q2 2020 Published in NEJM 2021 Feb 25;doi: 10.1056/NEJMoa2028700 Filed in the 	 FPI Q2 2020 Recruitment completed Jan 2021 Study did not meet primary endpoint Q1 2021 EU Q3 2021
CT Identifier	NCT04320615	NCT04409262

¹In collaboration with US Biomedical Advanced Research and Development Authority (BARDA); ²In collaboration with Gilead Sciences, Inc.

Actemra/RoActemra (RG-1569)



Interleukin 6 receptor inhibitor

Indication	Adult hospitalised with severe COVID-19 pneumonia		
Phase/study	Phase II MARIPOSA	Phase III EMPACTA	
# of patients	N=100	N=379	
Design	 Arm A: 8 mg/kg tocilizumab plus standard of care Arm B: 4mg/kg tocilizumab plus standard of care 	Conducted in sites known to provide critical care to underserved and minority populations that often do not have access to clinical trials - Arm A: tocilizumab plus standard of care - Arm B: placebo plus standard of care	
Primary endpoint	 Pharmacodynamics and pharmacokinetics 	 Cumulative proportion of participants requiring mechanical ventilation by day 28 	
Status	 FPI Q2 2020 Recruitment completed Q2 2020 Filed in the 	 FPI Q2 2020 Primary endpoint met Q3 2020 Published in NEJM 2021 Jan 7;384(1):20-30 EU Q3 2021 	
CT Identifier	NCT04363736	NCT04372186	

NEJM=New England Journal of Medicine

Xolair



Humanized mAb that selectively binds to IgE

Indication	Food allergy	
Phase/study	Phase III OUtMATCH ¹	
# of patients	N=225	
Design	 Xolair by subcutaneous injection either every 2 weeks or every 4 weeks for 16 to 20 weeks 	
Primary endpoint	 Number of participants who successfully consume ≥600 mg of peanut protein without dose-limiting symptoms 	
Status	■ FPI July 2019	
CT Identifier	NCT03881696	

Xofluza (baloxavir marboxil, RG6152, S-033188)



Small molecule, novel CAP-dependent endonuclease inhibitor

Indication	Influenza		
Phase/stud y	Phase III miniSTONE 1 (0-1 year old)	Phase III miniSTONE 2 (1-12 years old)	Phase IIIb CENTERSTONE
# of patients	N=30	N=176	N=3,160
Design	 Xofluza on Day 1 (based on body weight and age) in healthy pediatric patients from birth to <1 year with influenza-like symptoms 	 Xofluza vs Tamiflu in healthy pediatric patients 1 to <12 years of age with influenza-like symptoms 	 Reduction of direct transmission of influenza from otherwise healthy patients to household contacts Patients treated with Xofluza vs placebo
Primary endpoint	■ Safety	■ Safety	 Percentage of household contacts who are PCR-positive for influenza by day 5 post randomization of index patients
Status	• FPI Q1 2019	 Primary endpoint met Q2 2019 Data presented at OPTIONS X 2019 Filed in US Q1 2020 Data published in Pediatric Infectious Disease 2020 Aug;39(8):700-705 Not approved in the US, determining path forward with the FDA 	• FPI Q4 2019
CT Identifier	NCT03653364	NCT03629184	NCT03969212



Pipeline summary

Marketed products additional indications

Global Development late-stage trials

pRED (Roche Pharma Research & Early Development)

gRED (Genentech Research & Early Development)

Spark

Roche Group YTD Sep 2021 sales

Diagnostics

Foreign exchange rate information

Ipatasertib (RG7440, GDC-0068)



Highly selective small molecule inhibitor of Akt

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Indication	1L castration-resistant prostate cancer	Advanced prostate cancer and solid tumors	Prostate cancer previously treated with androgen receptor-targeted therapy
Phase/study	Phase III IPATential150	Phase Ib	Phase Ib
# of patients	N=1,100	N=54	N=50
Design	 ARM A: Ipatasertib plus abiraterone ARM B: Placebo plus abiraterone 	 Ipatasertib plus rucaparib Stage 1: Dose escalation in advanced breast, ovarian and prostate cancer Stage 2: Dose expansion in prostate cancer 	• Ipatasertib plus Tecentriq plus docetaxel
Primary endpoint	 Radiographic progression-free survival (rPFS) in patients with PTEN loss tumors and overall population 	Safety and efficacy	Safety and efficacy
Status	 FPI Q2 2017 Recruitment completed Jan 2019 Study met co-primary endpoint in rPFS in patients with PTEN loss tumors Q2 2020 Data presented at ESMO 2020 Published in Lancet 2021; 398:131-142 	• FPI Q2 2019	• FPI Q3 2020
CT Identifier	NCT03072238	NCT03840200	NCT04404140



Monoclonal antibody targeting the immune checkpoint inhibitor TIGIT

Indication	1L NSCLC PD-L1 TPS>50%	1L ES-SCLC	Stage III unresectable 1L NSCLC
Phase/study	Phase III SKYSCRAPER-01	Phase III SKYSCRAPER-02	Phase III SKYSCRAPER-03
# of patients	N=500-560	N=470	N=800
Design	 Arm A: Tiragolumab plus Tecentriq Arm B: Placebo plus Tecentriq 	 Arm A: Tiragolumab plus Tecentriq, carboplatin and etoposide Arm B: Placebo plus Tecentriq, carboplatin and etoposide 	 Arm A: Tiragolumab plus Tecentriq for up to 12 months Arm B: Durvalumab for up to 12 months
Primary endpoint	 Overall survival and progression free survival 	 Overall survival and progression free survival 	 Progression-free survival
Status	FPI Q1 2020Recruitment completed Q3 2021	FPI Q1 2020Recruitment completed Q1 2021	■ FPI Q3 2020
CT Identifier	NCT04294810	NCT04256421	NCT04513925



Monoclonal antibody targeting the immune checkpoint inhibitor TIGIT

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Indication	Metastatic and/or recurrent PD-L1+ cervical cancer	Neoadjuvant and adjuvant NSCLC	1L non-squamous NSCLC
Phase/study	Phase II SKYSCRAPER-04	Phase II SKYSCRAPER-05	Phase II SKYSCRAPER-06
# of patients	N=172	N=82	N=200
Design	 Arm A: Tiragolumab plus Tecentriq Arm B: Tecentriq 	 Arm A: (PD-L1 high) neoadjuvant tiragolumab plus Tecentriq followed by adjuvant tiragolumab plus Tecentriq or adjuvant chemo Arm B: (PD-L1 all-comers) neoadjuvant tiragolumab plus Tecentriq plus chemo followed by adjuvant tiragolumab plus Tecentriq 	 Arm A: Tiragolumab plus Tecentriq plus pemetrexed plus chemo followed by maintenance tiragolumab plus Tecentriq plus pemetrexed Arm B: Placebo plus pembrolizumab plus pemetrexed plus chemo followed by maintenance placebo plus pembrolizumab plus pemetrexed
Primary endpoint	 Objective Response Rate (ORR) 	 Pathologic complete response, major pathological response and safety 	 Objective response rate (ORR) and progression-free survival
Status	■ FPI Q2 2020	■ FPI Q2 2021	■ FPI Q4 2020
CT Identifier	NCT04300647	NCT04832854	NCT04619797

NSCLC=Non-small cell lung cancer



Monoclonal antibody targeting the immune checkpoint inhibitor TIGIT

Indication	Locally advanced esophageal cancer	1L esophageal cancer	1L recurrent/metastatic PD-L1 positive squamous cell head and neck carcinoma
Phase/study	Phase III SKYSCRAPER-07	Phase III SKYSCRAPER-08	Phase II SKYSCRAPER-09
# of patients	N=750	N=500	N=120
Design	 Arm A: Tiragolumab plus Tecentriq Arm B: Tecentriq plus placebo Arm C: Placebo plus placebo 	 Arm A: Tiragolumab plus Tecentriq plus cisplatin and paclitaxel Arm B: Placebo plus placebo plus cisplatin and paclitaxel 	 Arm A: Tiragolumab plus Tecentriq Arm B: Tecentriq plus placebo
Primary endpoint	 Progression-free survival (A vs C) Overall survival (A vs C, hierarchical, B vs C hierarchical) 	 Overall survival and progression-free survival 	 Objective response rate (ORR)
Status	■ FPI Q3 2020	■ FPI Q4 2020	■ FPI Q1 2021
CT Identifier	NCT04543617	NCT04540211	NCT04665843

NSCLC=Non-small cell lung cancer



Monoclonal antibody targeting the immune checkpoint inhibitor TIGIT

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Indication	Solid tumors	NSCLC	R/R Multiple Myeloma (MM) or R/R B-cell NHL
Phase/study	Phase I	Phase II CITYSCAPE	Phase I
# of patients	N=540	N=135	N=52
Design	 Phase Ia: Dose escalation and expansion of tiragolumab Phase Ib: Dose escalation and expansion of tiragolumab in combination with Tecentriq and/or other anti-cancer therapies 	 Arm A: Tecentriq plus tiragolumab Arm B: Tecentriq monotherapy 	 Phase la: Tiragolumab monotherapy Phase lb: Tiragolumab plus daratumumab (r/r MM) or rituximab (r/r NHL)
Primary endpoint	 Safety, tolerability, PK variability and preliminary efficacy 	 Overall response rate and progression-free survival 	 Safety, tolerability, PK/PD and preliminary efficacy
Status	 FPI Q2 2016 Data presented at AACR 2020 	 FPI Q3 2018 Recruitment completed Q2 2019 Data presented at ASCO 2020 and WCLC 2021 Breakthrough therapy designation granted by FDA Dec 2020 	■ FPI Q2 2019
CT Identifier	NCT02794571	NCT03563716	NCT04045028

Glofitamab (CD20-TCB, RG6026)



1 3		7 000	
Indication	Relapsed or refractory Non-Hodgkin's lymphoma		
Phase/study	Phase I Phase Ib Pha		Phase I
# of patients	N=700	N=140	N=18-36
Design	Cohort 1: Single-agent dose escalation study Initial dose escalation Expansion cohort in r/r DLBCL Expansion cohort in r/r FL All patients will receive pretreatment with a single dose of Gazyva (1000mg) Cohort 2: glofitamab plus Gazyva (i.e. continuous treatment with Gazyva)	 Dose escalation and expansion Arm A: glofitamab plus Tecentriq Arm B: glofitamab plus Polivy 	Glofitamab SC Part 1 dose escalation
Primary endpoint	 Efficacy, safety, tolerability and pharmacokinetics 	■ Safety	■ Safety
Status	 FPI Q1 2017 Data presented at ASH 2018, ICML and ASH 2019; EHA and ASH 2020; ASCO, EHA and ICML 2021 Data published online 19 March 2021 J Clin Oncology 39:18:1959-1970 	 Arm A: FPI Q2 2018 Data presented at ASH 2019 Arm B: FPI Q4 2020 	■ FPI Q3 2021
CT Identifier	NCT03075696	NCT03533283	ISRCTN17975931

Glofitamab (CD20-TCB, RG6026)



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Indication	Non-Hodgkin's lymphoma	Relapsed/refractory DLBCL and High-Grade Large B-Cell Lymphoma	2L+ SCT-ineligible DLBCL
Phase/study	Phase Ib	Phase Ib	Phase III STARGLO
# of patients	Part I: 15-60 Part II: ∼66-104	N=20	N=270
Design	 Part I: Dose-finding for the combination of glofitamab plus G/R CHOP in r/r indolent NHL Part II: Dose expansion glofitamab plus G/R-CHOP or R-CHOP in 1L DLBCL Part III: glofitamab plus R-CHP plus Pola 	 Glofitamab plus gemcitabine and oxaliplatin, followed by up to 4 cycles of glofitamab monotherapy A single dose of obinutuzumab will be administered 7 days prior to the first dose of glofitamab 	 Arm A: glofitamab plus gemcitabine and oxaliplatin, followed by up to 4 cycles of glofitamab monotherapy Arm B: Rituxan in combination with gemcitabine and oxaliplatin A single dose of obinutuzumab will be administered 7 days prior to the first dose of glofitamab
Primary endpoint	■ Safety	■ Safety	Overall survival
Status	■ Part I: FPI Q1 2018 ■ Part II: FPI Q1 2021	■ FPI Q2 2020	■ FPI Q1 2021
CT Identifier	NCT03467373	NCT04313608	NCT04408638

Mosunetuzumab (CD20/CD3, RG7828)



1 3	7 8 8 8		
Indication	3L+ FL, 3L+ DLBCL & other R/R NHL	1L DLBCL	R/R DLBCL
Phase/study	Phase I/II	Phase Ib/II	Phase Ib
# of patients	N=746	N=160	N=262
Design	 Dose escalation study of mosunetuzumab as single agent and in combination with Tecentriq Expansion cohorts for r/r FL, r/r DLBCL and subcutaneous in r/r NHL 	 Mosunetuzumab plus CHOP Mosunetuzumab plus CHP plus Polivy Mosunetuzumab plus CHP-Polivy Rituximab plus CHP-Polivy 	 Mosunetuzumab plus Polivy Randomised cohorts ARM A: mosunetuzumab SC plus Polivy ARM B: Rituximab plus Polivy
Primary endpoint	 Safety, tolerability, dose/schedule, PK, and response rates 	 Safety/tolerability and response 	 Safety/tolerability and response
Status	 FPI Q3 2015 Data in r/r NHL presented at ASH 2018 and 2019, and in r/r FL at ASH 2020 BTD granted by FDA Q2 2020 SC cohort FPI Q2 2021 	 FPI Q1 2019 Data for M+CHOP presented at ASH 2020 	 FPI Q3 2018 Initial data presented at ASCO 2021
CT Identifier	NCT02500407	NCT03677141	NCT03671018

Mosunetuzumab (CD20/CD3, RG7828)



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Indication	1L DLBCL & 2L DLBCL following 1L induction	R/R 2L+ FL
Phase/study	Phase I	Phase Ib
# of patients	N=92 + 80 (cohort C)	N=27
Design	 Cohort A: Mosunetuzumab monotherapy (after a response to prior systemic chemotherapy) Cohort B: Mosunetuzumab monotherapy (1L treatment in elderly/frail) Cohort C: Mosunetuzumab (subcutaneous) plus polatuzumab vedotin in 1L elderly/unfit 	 Mosunetuzumab plus lenalidomide safety run-in for phase III Mosunetuzumab SC plus lenalidomide
Primary endpoint	Safety/tolerability and response	 Safety/tolerability and response
Status	 FPI Q2 2019 – Cohort B FPI Q3 2019 – Cohort A Initial data presented at ASH 2020 (cohort B) Cohort C: FPI Q1 2021 	• FPI Q3 2020
CT Identifier	NCT03677154	NCT04246086

Inavolisib (RG6114, GDC-0077)



A potent, orally available, and selective PI3K α inhibitor

Indication	PIK3CA-mutant HR+ mBC	PIK3CA mutant solid tumors and metastatic ER+ HER2-neg breast cancer
Phase/study	Phase III INAVO120	Phase I
# of patients	N=400	N=156
Design	 Arm A: GDC-0077 plus palbociclib plus fulvestrant Arm B: Placebo plus palbociclib plus fulvestrant 	Monotherapy and in combination with SoC (letrozole; letrozole plus palbociclib; fulvestrant) • Stage 1: Dose escalation • Stage 2: Expansion
Primary endpoint	■ Progression-free survival	■ Safety, tolerability and PK
Status	■ FPI Q1 2020	 FPI Q4 2016 Preclinical/molecule discovery data presented at AACR 2017 Data presented at SABCS 2019 and 2020
CT Identifier	NCT04191499	NCT03006172

Giredestrant (SERD (3), RG6171, GDC-9545)



A selective estrogen receptor degrader or downregulator

Indication	ER+ HER2-neg metastatic breast cancer	ER+ HER2-neg Stage I-III operable breast cancer	Neoadjuvant ER+ breast cancer
Phase/study	Phase I	Phase I	Phase II coopERA Breast Cancer
# of patients	N=220	N=75	N=215
Design	 Dose escalation and expansion at recommended phase II dose (RP2D) Single agent and in combination with palbociclib and/or luteinizing hormone—releasing hormone (LHRH) agonist 	 Open-label, pre-operative administration Dose escalation 	 ARM A: Single agent followed by combo with palbociclib ARM B: anastrazole followed by anastrazole plus palbociclib
Primary endpoint	■ Safety	 Safety, tolerability and PK/PD 	 Safety, tolerability and PK/PD
Status	FPI Q4 2017Data presented at SABCS 2019, ASCO 2020 and ASCO 2021	FPI Q3 2019Data presented at ASCO 2021	 FPI Q3 2020 Interim data presented at ESMO 2021
CT Identifier	NCT03332797	NCT03916744	NCT04436744

Giredestrant (SERD (3), RG6171, GDC-9545)



A selective estrogen receptor degrader or downregulator

Indication	2L/3L ER+/HER2-negative metastatic breast cancer	1L ER+ metastatic breast cancer	Adjuvant ER+ breast cancer
Phase/study	Phase II acelERA Breast Cancer	Phase III persevERA Breast Cancer	Phase III IidERA Breast Cancer
# of patients	N=300	N=978	N=4,100
Design	 Arm A: giredestrant monotherapy Arm B: endocrine monotherapy (fulvestrant or aromatase inhibitor) 	 Arm A: giredestrant plus palbociclib Arm B: letrozole plus palbociclib 	 Arm A: giredestrant monotherapy Arm B: tamoxifen or aromatase inhibitor
Primary endpoint	 Progression-free survival 	 Progression-free survival 	 Invasive disease-free survival (IDFS)
Status	■ FPI Q4 2020	■ FPI Oct 2020	• FPI Q3 2021
CT Identifier	NCT04576455	NCT04546009	NCT04576455

rhPTX-2 (RG6354)



Recombinant human innate immunity protein pentraxin-2

Indication	Idiopathic pulmonary fibrosis (IPF)		Myelofibrosis
Phase/study	Phase II	Phase III STARSCAPE	Phase II
# of patients	N=117	N=658	N=125
Design	 Randomized, double-blind, placebo-controlled trial: 4-week screening period, 24-week randomized treatment period, 4-week follow-up visit (week 28) rhPTX-2 at days 1, 3 and 5 then every 4 weeks vs placebo 	 Randomized, double-blind, placebo-controlled trial: 4-week screening period, 52-week randomized treatment period rhPTX-2 at days 1, 3 and 5 then every 4 weeks vs placebo 	 Multiple dose study of rhPTX-2
Primary endpoint	 Least-squares mean change in forced vital capacity (FVC) percentage of predicted value from baseline to week 28 	•Absolute change from baseline to week 52 in FVC	Bone marrow response rate
Status	 Study met primary endpoint Data published in JAMA 2018;319(22):2299-2307 and Lancet Respir Med 2019 Aug;7(8):657-664 	• FPI Q1 2021	Study completed Q1 2021
CT Identifier	NCT02550873	NCT04552899	NCT01981850

Fenebrutinib (RG7845, GCD-0853)



Highly selective and reversible (noncovalent) bruton tyrosine kinase

Indication	Primary progressive multiple sclerosis (PPMS)	Relapsing multiple sclerosis (RMS)	
Phase/study	Phase III FENtrepid	Phase III FENhance 1	Phase III FENhance 2
# of patients	N=946	N=734	N=734
Design	 ARM A: Fenebrutinib twice daily oral Arm B: Ocrelizumab 2x300 mg IV every 24 weeks 	 Arm A: Fenebrutinib twice daily oral Arm B: Teriflunomide once daily oral 	 Arm A: Fenebrutinib twice daily oral Arm B: Teriflunomide once daily oral
Primary endpoint	 Time to onset of composite 12-week confirmed disability progression (cCDP12) 	 Time to onset of composite 12-week confirmed disability progression (cCDP12) and annualized relapse rate 	 Time to onset of composite 12-week confirmed disability progression (cCDP12) and annualized relapse rate
Status	■ FPI Q4 2020	■ FPI Q1 2021	■ FPI Q1 2021
CT Identifier	NCT04544449	NCT04586023	NCT04586010

Etrolizumab (RG7413)



Humanized mAb against beta 7 integrin

Indication	Moderately to severely active Crohn's disease	Moderately to severely active Crohn's disease
Phase/study	Phase III BERGAMOT Induction and maintenance study	Phase III JUNIPER Open label extension study for BERGAMOT
# of patients	N=1,150	N=900
Design	 ARM A: Etrolizumab SC 210 mg (induction only) ARM B: Etrolizumab SC 105 mg and maintenance ARM C: Placebo 	Etrolizumab SC 105mg q4w
Primary endpoint	 Induction and maintenance of clinical remission 	■ Safety
Status	 FPI Q1 2015 Cohort 1 data presented at UEGW 2017 Recruitment completed Q2 2021 	■ FPI Q2 2015
CT Identifier	NCT02394028	NCT02403323

UEGW=United European Gastroenterology Week

Crovalimab (RG6107; SKY59)



A humanized monoclonal antibody against complement C5

Indication	Paroxysmal nocturnal hemoglobinuria (PNH)
Phase/study	Phase I/II COMPOSER
# of patients	N=59
Design	Healthy volunteers and treatment naïve and pretreated patients with PNH: Part 1: single ascending dose study in healthy subjects Part 2: intra-patient single ascending dose study in PNH patients Part 3: Multiple-dose study in PNH patients Part 4: Dose confirmation in PNH patients
Primary endpoint	■ Safety, PK, PD
Status	 Part 1: FPI Q4 2016 Part 2/3: FPI Q2 2017 Part 4: FPI Q2 2019 Nonclinical data published in Scientific Reports 2017 Apr; 7(1):1080 Data presented for Part 2 and 3 at ASH 2018 and 2019
CT Identifier	NCT03157635

Crovalimab (RG6107; SKY59)



A humanized monoclonal antibody against complement C5

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Indication	Paroxysmal Nocturnal Hemoglobinuria (PNH) patients switching from a C5 inhibitor	Paroxysmal Nocturnal Hemoglobinuria (PNH) C5 inhibitor naive patients	Paroxysmal Nocturnal Hemoglobinuria (PNH) C5 inhibitor naive patients (China only)
Phase/study	Phase III COMMODORE 1	Phase III COMMODORE 2	Phase III COMMODORE 3
# of patients	N=250	N=200	N=50
Design	 Arm A: Crovalimab Arm B: Eculizumab Arm C: Patients switching to crovalimab from ravulizumab, higher than labelled doses of eculizumab & C5 SNP patients (descriptive-arm) 	Arm A: CrovalimabArm B: Eculizumab	 Crovalimab loading dose IV on Day 1, followed by weekly crovalimab subcutaneous doses for 4 weeks
Primary endpoint	 Non-inferiority of crovalimab compared to eculizumab - mean % change in LDH level (measure of haemolysis) from baseline to week 25 	 Non-inferiority of crovalimab compared to eculizumab: % pts with transfusion avoidance from baseline through week 25 % pts with haemolysis control, as measured by LDH <=1.5ULN from week 5-25 	 Percentage of patients with transfusion avoidance from baseline through week 25 Mean percentage of participants with hemolysis control (week 5 through week 25)
Status	■ FPI Q3 2020	■ FPI Q4 2020	FPI Q1 2021Recruitment completed Q3 2021
CT Identifier	NCT04432584	NCT04434092	NCT04654468

Crenezumab (RG7412)



Humanized mAb targeting all forms of $A\beta$

Indication	Alzheimer's Prevention Initiative (API) Colombia	
Phase/study	Phase II Cognition study	
# of patients	N=252	
Design	 ARM A: PSEN1 E280A mutation carriers receive crenezumab SC ARM B: PSEN1 E280A mutation carriers receive placebo ARM C: non-mutation carriers receive placebo 	
Primary endpoint	 Change on Alzheimer's Prevention Initiative (API) Composite Cognitive Test total score at 260 weeks treatment 	
Status	■ FPI Q4 2013 ■ Recruitment completed Q1 2017	
CT Identifier	NCT01998841	

Gantenerumab (RG1450)



Fully human mAb binding aggregated forms of $A\beta$

Indication	Prodromal to mild Alzheimer's disease		
Phase/study	Phase III GRADUATE 1	Phase III GRADUATE 2	Phase II GRADUATION
# of patients	N=1,016	N=1,016	N=192
Design	104-week subcutaneous treatment period:ARM A: GantenerumabARM B: Placebo	104-week subcutaneous treatment period:ARM A: GantenerumabARM B: Placebo	104-week subcutaneous treatment period: Gantenerumab subcutaneous treatment Q1W dosing regimen
Primary endpoint	 Change in CDR-SOB at 27 months 	 Change in CDR-SOB at 27 months 	 Change from baseline in deposited amyloid (PET centiloid levels)
Status	 FPI Q2 2018 Recruitment completed Q2 2020 BTD granted 	 FPI Q3 2018 Recruitment completed Q2 2020 by FDA Sep 2021 	 FPI Q4 2020 Recruitment completed Q3 2021
CT Identifier	NCT03443973	NCT03444870	NCT04592341

Gantenerumab (RG1450)



Fully human mAb binding aggregated forms of $A\beta$

Indication	Prodromal Alzheimer's disease	Mild Alzheimer's disease
Phase/study	Phase II/III SCarlet RoAD	Phase III Marguerite RoAD
# of patients	N=799	N=389
Design	 104-week subcutaneous treatment period: ARM A: Gantenerumab (225 mg) ARM B: Gantenerumab (105 mg) ARM C: Placebo 	104-week subcutaneous treatment period:ARM A: GantenerumabARM B: Placebo
Primary endpoint	Change in CDR-SOB at 2 yearsSub-study: change in brain amyloid by PET at 2 years	 Change in ADAS-Cog and CDR-SOB at 2 years (co-primary)
Status	 Phase I PET data: Archives of Neurology, 2012 Feb;69(2):198-207 Recruitment completed Q4 2013 Dosing stopped due to futility Q4 2014 FPI in open label extension study Q4 2015 Published in Alzheimers Res Ther 2017 Dec 8;9(1):95 	 FPI Q1 2014 Recruitment stopped Q4 2015 FPI Q1 2016 for open label extension
	■ 36 OLE data published in J Prev Alzheimers Dis 2021;8(1):3-6	
CT Identifier	NCT01224106	NCT02051608

Tominersen (RG6042, HTT ASO)



Antisense oligonucleotide (ASO) targeting human HTT mRNA

Indication	Huntington's disease		
Phase/study	Phase I/IIa	Phase II OLE	
# of patients	N=46	N=46	
Design	 Multiple ascending doses of RG6042 administered intrathecally to adult patients with early manifest Huntington's Disease 	■ Patients from phase I are enrolled into OLE	
Primary endpoint	 Safety, tolerability, PK and PD 	Longer term safety, tolerability, PK, PD.	
Status	 FPI Q3 2015 Data presented at CHDI 2018 and AAN 2018 PRIME designation granted 2018 Published in NEJM 2019; 380:2307-2316 	 FPI Q1 2018 PK/PD data presented at AAN 2019 Update presented at CHDI 2020 Study completed, patients moved to GEN-EXTEND OLE 	
CT Identifier	NCT02519036	NCT03342053	

Tominersen (RG6042, HTT ASO)



Antisense oligonucleotide (ASO) targeting human HTT mRNA

Indication	Huntington's disease					
Phase/study	Phase III Generation HD1	Phase III GEN-EXTEND				
# of patients	N=791	N=1,050				
Design	 ARM A: RG6042 120mg bimonthly ARM B: RG6042 120mg every four months ARM C: Placebo bimonthly 	Open-Label Extension study in patients participating in prior Roche and Genentech sponsored studies • Arm A: RG6042 120mg bimonthly • Arm B: RG6042 120mg every four months				
Primary endpoint	cUHDRS globallyTFC USA only	 Long term safety, tolerability 				
Status	 FPI Jan 2019 Q1 2019 protocol modified to allow for bi-monthly vs four-monthly dosing, FPI for new protocol July 2019 Recruitment completed Q2 2020 Dosing stopped in Q1 2021 based on IDMC recommendation regarding the potential benefit/risk profile for study participants. No new safety signals identified. 	 FPI April 2019 Dosing stopped in Q1 2021 				
CT Identifier	NCT03761849	NCT03842969				

Faricimab (RG7716)



Bispecific antibody to simultaneously bind Ang-2 and VEGF-A

Indication	Center-involving diabetic macular edema (CI-DME)					
Phase/study	Phase III YOSEMITE	Phase III RHINE				
# of patients	N=940	N=951				
Design	 ARM A: Faricimab q8w ARM B: Faricimab PTI up to q16w ARM C: Aflibercept, q8w 	 ARM A: Faricimab q8w ARM B: Faricimab PTI up to q16w ARM C: Aflibercept, q8w 				
Primary endpoint	 Change from baseline in BCVA at 1 year 	 Change from baseline in BCVA at 1 year 				
Status	 FPI Q3 2018 Recruitment completed Q3 2019 Study met primary endpoint Q4 2020 Data presented at Angiogenesis 2021 	 FPI Q4 2018 Recruitment completed Q3 2019 Study met primary endpoint Q4 2020 Data presented at Angiogenesis 2021 Filed in US and EU Q2 2021 				
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CT Identifier	NCT03622580	NCT03622593				

Faricimab (RG7716)



Bispecific antibody to simultaneously bind Ang-2 and VEGF-A

Indication	Neovascular age related macular degeneration (nAMD)				
Phase/study	Phase III TENAYA	Phase III LUCERNE			
# of patients	N=671	N=658			
Design	 ARM A: Faricimab 6.0mg Q16 flex after 4 initiating doses (IDs) ARM B: Aflibercept 2.0mg Q8 after 3 IDs 	 ARM A: Faricimab 6.0mg Q16 flex after 4 initiating doses (IDs) ARM B: Aflibercept 2.0mg Q8 after 3 IDs 			
Primary endpoint	 Change from baseline in BCVA Week 40, 44 & 48 	 Change from baseline in BCVA Week 40, 44 & 48 			
Status	 FPI Q1 2019 Recruitment completed Q4 2019 Study met primary endpoint Jan 2021 Data presented at Angiogenesis 2021 Filed in US a 	 FPI Q1 2019 Recruitment completed Q4 2019 Study met primary endpoint Jan 2021 Data presented at Angiogenesis 2021 			
CT Identifier	NCT03823287	NCT03823300			

Faricimab (RG7716)



Bispecific antibody to simultaneously bind Ang-2 and VEGF-A

Indication	Macular edema secondary to branch retinal vein occlusion	Macular edema secondary to central retinal vein occlusion
Phase/study	Phase III BALATON	Phase III COMINO
# of patients	N=570	N=750
Design	 ARM A: Faricimab, q4w/PTI ARM B: Aflibercept, q4w 	 ARM A: Faricimab, q4w/PTI ARM B: Aflibercept, q4w
Primary endpoint	 Change from baseline in BCVA at week 24 	 Change from baseline in BCVA at week 24
Status	• FPI Q1 2021	■ FPI Q1 2021
CT Identifier	NCT04740905	NCT04740931

Port Delivery System with ranibizumab



First eye implant to achieve sustained delivery of a biologic medicine

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Indication		wAMD	
Phase/study	Phase III Archway	Phase II+III extension Portal	Phase IIIb Velodrome
# of patients	N=418	N=500	N=442
Design	 ARM A: PDS with ranibizumab every 24 weeks ARM B: Intravitreal ranibizumab every 4 weeks 	 Patients from LADDER or Archway will receive refills of 100 mg/mL ranibizumab q24w (patients without the PDS will receive the PDS and subsequent refills) 	 ARM A: PDS with ranibizumab every 36 weeks ARM B: PDS with ranibizumab every 24 weeks
Primary endpoint	 Change in BCVA from baseline at the average of week 36 and week 40 	 Safety and long term efficacy 	 Change in BCVA from baseline averaged over weeks 68 and 72
Status	 FPI Q3 2018 Recruitment completed Q2 2019 Study met primary endpoint Q2 2020 Primary endpoint data presented at ASRS 2020 and 44/48 week data at Angiogenesis 2021 Filed in US (priority review) and EU Q2 2021 	■ FPI Q3 2018	• FPI achieved July 2021
CT Identifier	NCT03677934	NCT03683251	NCT04657289

Port Delivery System with ranibizumab



First eye implant to achieve sustained delivery of a biologic medicine

Indication	DME	Diabetic retinopathy without center-involved diabetic macular edema
Phase/study	Phase III Pagoda	Phase III Pavilion
# of patients	N=545	N=160
Design	 ARM A: PDS with ranibizumab every 24 weeks ARM B: Intravitreal ranibizumab every 4 weeks 	 Arm A: Intravitreal ranibizumab (X2) followed by PDS implant (refill every 36 weeks) Arm B: Q4W comprehensive clinical monitoring until participants receive PDS (refill every 36 weeks)
Primary endpoint	 Change in BCVA from baseline at the average of week 48 and week 52 	 Percentage of participants with a ≥2-step improvement from baseline on the ETDRS-DRSS at Week 52
Status	FPI Q3 2019Recruitment completed Q2 2021	FPI Q3 2020Recruitment completed Q3 2021
CT Identifier	NCT04108156	NCT04503551

AT-527 (RG6422)



Viral RNA polymerase inhibitor

Indication	Non-hospitalised adult patients with mild or moderate COVID-19	Adult patients SARS-COV-2 positive in an outpatient setting
Phase/study	Phase II MOONSONG	Phase III MORNINGSKY
# of patients	N=220	N=1,386
Design	• ARM A: AT-527 • ARM B: Placebo	Arm A: AT-527 550mg BIDArm B: Placebo
Primary endpoint	 Change from baseline in the amount of severe acute respiratory syndrome coronavirus-2 (SARS-CoV-2) virus RNA 	Time to symptom alleviation
Status	FPI Q1 2021Primary endpoint not met Oct 2021	• FPI Q2 2021
CT Identifier	NCT04709835	NCT04889040

In collaboration with Atea Pharmaceuticals



Pipeline summary

Marketed products additional indications

Global Development late-stage trials

pRED (Roche Pharma Research & Early Development)

gRED (Genentech Research & Early Development)

Spark

Roche Group YTD Sep 2021 sales

Diagnostics

Foreign exchange rate information





Molecule	Indication	Phase	# of patients	Status	CT Identifier			
Oncology								
TYRP1 x CD3 (RG6232)	Melanoma	I	210	FPI Q4 2020	NCT04551352			
FAP-4-1BBL (RG7827)	Solid tumors	I	~150	FPI Q2 2018 Data presented at ESMO 2020 Recruitment completed Q2 2021				
	3L+ MSS mCRC	I	80	FPI July 2021 Combination study with cibisatamab	NCT04826003			
CD19-4-1BBL (RG6076)	R/R B cell non-Hodgkin's lymphoma	I	207	Part I: FPI Q3 2019; Part II: FPI Q3 2020	NCT04077723			
PD1-IL2v (RG6279)	Solid tumors	I	440	FPI Q2 2020	NCT04303858			
	OF A	la	149	FPI Q4 2014 Data presented at ASCO 2017	NCT02324257			
cibisatamab (CEA x CD3, RG7802)	CEA-positive solid tumors	lb	228	FPI Q1 2016 Data presented at ASCO 2017	NCT02650713			
	3L+ MSS mCRC	lb	46	FPI Q1 2019	NCT03866239			
PD1-TIM3 (RG7769)	Solid tumors	la/b	280	FPI Q4 2018	NCT03708328			
PD1-LAG3 (RG6139)	Solid tumors	I	320	FPI Q4 2019	NCT04140500			
PD1-LAG3, PD1-TIM3 (RG6139, RG7769)	Solid tumors	II	255	FPI Q2 2021 3-arm, randomized, compared with nivolumab	NCT04785820 TALIOS			



pRED oncology development programs -2

Molecule	Indication	Phase	# of patients	Status	CT Identifier
		Oncolo	ogy		
	Solid tumors	1	110	FPI Q4 2019	NCT04158583
CD25 (RG6292)	Advanced and metastatic solid tumors	1	160	FPI Jan 2021	NCT04642365
TLR7 agonist (4) (RG6115)	Hepatocellular carcinoma	I	100	FPI July 2020	NCT04338685
Anti-GPRC5D (RG6234)	Multiple myeloma	I	240	FPI Q4 2020	NCT04557150
HLA-A2-WT1 x CD3 (RG6007)	AML	1	160	FPI Q4 2020	NCT04580121
FAP-CD40 (RG6189)	Solid tumors	I	180	FPI Q2 2021	





Molecule	Indication	Phase	# of patients	Status	CT Identifier			
Neuroscience Neuroscience								
Brain Shuttle-gantenerumab (BS-gantenerumab, RG6102)	Alzheimer's disease	II	~120	FPI Q1 2021	NCT04023994			
Brain Shuttle-CD20 (BS-CD20, RG6035)	Multiple sclerosis	I	30	FPI Q3 2021	ISRCTN16295 177			
		II	36	FPI Q4 2018; Recruitment completed Q3 2019				
ralmitaront (partial TAAR1 agonist, RG7906)	Schizophrenia	II	247	FPI Q4 2019	NCT03669640 (TWAIN I)			
Community and against, manager,		II	308	FPI Q3 2020	NCT04512066 (TWAIN II)			
prasinezumab¹ (anti-αSynuclein, RG7935, PRX002)	Parkinson's disease	II	316	Study did not meet its primary objective, but showed signals of efficacy on core motor signs in PD. Key study data presented at MDS 2020, ADPD and MDS 2021. Part 3 (OLE) ongoing	NCT03100149 (PASADENA)			
PRAUUZ)		IIb	575	FPI Q2 2021	NCT04777331 (PADOVA)			
GABA-Aa5 PAM (RG7816)	Autism spectrum disorder	II	105	FPI Q1 2021	NCT04299464 (Aurora)			
NME (RG7637)	Neurodevelopmental disorders	1	80	FPI July 2020	NCT04475848			
UBE3A LNA (RG6091)	Angelman syndrome	1	66	FPI Q3 2020	NCT04428281			
NME (RG6182)	Neurodegenerative disorder	1	30	FPI Q4 2020				

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Molecule	Indication	Phase	# of patients	Status	CT Identifier
		Immuno	ology		
	Ulcerative Colitis	lb	65	FPI Q2 2019	NCT03943550
lgG-IL2 (RG7835)	Autoimmune diseases	II	84	FPI Q2 2021	NCT04790916 GOLDSTONE

Ophthalmology							
NME (RG6179) ¹	DME	I	50	FPI July 2019			
VEGF-Ang2 DutaFab (RG6120)	nAMD	I	50	FPI Q4 2020	NCT04567303		
NME (RG7774)	Retinal disease	II	180	FPI Q2 2020	NCT04265261 (CANBERRA)		

Partner: ¹Sesen Bio





Molecule	Indication		# of patients	Status	CT Identifier				
Infectious Diseases									
TLR7 agonist (3) (RG7854)	Chronic hepatitis B	1	150	FPI Q4 2016 Data presented at APASL 2019	NCT02956850				
CpAM (RG7907)	Chronic hepatitis B	1/11	192	FPI Q4 2016 Data presented at EASL 2018, 2019 & 2020 Part 1 (healthy volunteers) published in Antimicrob Agents Chemother DOI: 10.1128/AAC.01323-20	NCT02952924				
		1	22	FPI Q1 2021 Recruitment completed Q2 2021	NCT04729309				
TLR7 agonist (3)/ CpAM/siRNA (RG7854/RG7907/RG6346)	Chronic hepatitis B	II 65		FPI July 2020	NCT04225715 (PIRANGA)				
PDL1 LNA (RG6084)	Chronic hepatitis B	1	35	FPI Q1 2019 Part la complete, part lb initiated					
Abx MCP (RG6006)	A. baumannii infections	1	168	FPI Q4 2020	NCT04605718				

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Pipeline summary

Marketed products additional indications

Global Development late-stage trials

pRED (Roche Pharma Research & Early Development)

gRED (Genentech Research & Early Development)

Spark

Roche Group YTD Sep 2021 sales

Diagnostics

Foreign exchange rate information





Molecule	Indication	Phase	# of patients	Status	CT Identifier		
Oncology							
KRAS G12C (RG6330)	Metastatic solid tumors with KRAS G12C mutation	1	108	FPI Q3 2020	NCT04449874		
cevostamab (anti-FcRH5 x CD3; RG6160)	R/R multiple myeloma	1	300	FPI Q3 2017 Data presented at ASH 2020	NCT03275103		
runimotamab (HER2 x CD3, RG6194)	Metastatic HER2-expressing cancers	I	440	FPI Q2 2018	NCT03448042		
NME (RG6286)	Locally advanced or metastatic colorectal cancer	I	67	FPI Q3 2020	NCT04468607		
IL15/IL15Ra-Fc (RG6323) ²	Solid tumors	1/11	250	FPI Q1 2020	NCT04250155		
autogene cevumeran (Individualized Neoantigen-	Solid tumors	la/IIb	770	FPI Q4 2017 Data presented at AACR 2020	NCT03289962		
Specific Therapy (iNeST); RG6180) ³	1L advanced melanoma	II	132	FPI Q1 2019	NCT03815058 (IMcode001)		
SHP2i (RG6344)	Solid tumors	la	~50	FPI Q1 2020	NCT04252339		
belvarafenib ⁴	nRASmt CPI-experienced melanoma	lb	83	FPI Q2 2021	NCT04835805		



gRED immunology and ophthalmology development programs

Molecule	Indication		# of patients	Status	CT Identifier			
Immunology								
	Inflammatory diseases	lb	90	FPI Q2 2016	NCT02749630			
efmarodocokin alfa (IL-22Fc, RG7880)	Inflammatory bowel disease	II	195	FPI Q4 2018	NCT03558152			
(12 221 0, 1147 000)	aGVHD	lb	18	FPI Q4 2020	NCT04539470			
NME (RG6287, GDC-8264)	Inflammatory bowel disease	I	68	FPI Q1 2020 Recruitment completed Q3 2021				
Anti truntoco	Asthma	ı	70	FPI Q1 2018				
Anti-tryptase (RG6173, MTPS9579A)	Asthma	lla	134	FPI Q4 2019 Recruitment completed Q1 2021	NCT04092582			
NME (RG6315, MTBT1466A)	Immunologic disorders	1	~24	FPI Q3 2020				
astegolimab (Anti-ST2, (RG6149, AMG 282, MSTT1041A) ¹	Chronic Obstructive Pulmonary Disease	llb	930	FPI Oct 2021	NCT05037929			

Ophthalmology								
HtrA1 (RG6147)	Geographic atrophy	II	360	FPI Q2 2019	NCT03972709 (GALLEGO)			
NME (RG6312)	Geographic atrophy	la	63	FPI Q4 2020	NCT04615325			

Partner: 1Amgen

gRED neuroscience and metabolic diseases development programs



Molecule	Indication	Phase	# of patients	Status	CT Identifier				
Neuroscience									
Semorinemab (RG6100) ¹	Prodromal to mild Alzheimer's disease	II	457	FPI Q4 2017 Primary endpoint not met Q3 2020 Data presented at CTAD 2020	NCT03289143 (TAURIEL)				
	Mild-to-Moderate Alzheimer's disease	II	272	FPI Q1 2019 One of two co-primary endpoints met Q3 2021	NCT03828747 (LAURIET)				

Metabolic Diseases									
FGFR1 x KLB (RG7992)	Metabolic diseases	la	79	FPI Q4 2015 Recruitment completed Q1 2017	NCT02593331				
	Metabolic diseases	lb	140	FPI Q1 2017 Recruitment completed Q2 2019	NCT03060538				
	NASH	II	260	FPI Q3 2020	NCT04171765				
NME (RG6338)	Metabolic diseases	la/lb	116	FPI Q2 2021					

Partner: ¹AC Immune



Pipeline summary

Marketed products additional indications

Global Development late-stage trials

pRED (Roche Pharma Research & Early Development)

gRED (Genentech Research & Early Development)

Spark

Roche Group YTD Sep 2021 sales

Diagnostics

Foreign exchange rate information

Hemophilia A

Spark Ro

Unique gene therapy platform

Molecule	SPI (Re	SPK-8016 (RG6358)			
Indication	Hem	Hemophilia A with inhibitors to Factor VIII			
Phase/study	Phase I	Phase I/II	Phase I/II		
# of patients	N=100	N=30	N=30		
Design	 Long term follow up study of patients who have received SPK-8011 in any prior Spark-sponsored SPK-8011 study 	 Gene transfer, dose-finding safety, tolerability, and efficacy study of SPK-8011 	 Gene transfer, dose-finding safety, tolerability, and efficacy study of SPK-8016 in individuals with FVIII inhibitors 		
Primary endpoint	■ Safety	 Safety and changes from baseline in FVIII activity levels at week 52 	 Safety; peak and steady state FVIII activity levels at week 52 		
Status	Ongoing	 FPI Q1 2017 Updated data presented at ISTH 2020 and 2021 Recruitment completed Q1 2021 	• FPI Q1 2019		
CT Identifier	NCT03432520	NCT03003533	NCT03734588		

Choroideremia



Unique gene therapy platform

Molecule	SPK-7001 (RG6367)								
Indication	Choroideremia								
Phase/study	Phase I/II								
# of patients	N=15								
Design	■ Safety study in subjects with CHM (choroideremia) gene mutations								
Primary endpoint	■ Safety and tolerability								
Status	■ FPI Q1 2015 ■ Recruitment completed Q2 2017								
CT Identifier	NCT02341807								

Pompe disease



Unique gene therapy platform

Molecule	SPK-3006 (RG6359)
Indication	Pompe disease
Phase/study	Phase I/II RESOLUTE
# of patients	N=20
Design	■ Gene transfer study for late-onset Pompe disease
Primary endpoint	■ Safety
Status	■ FPI Q4 2020
CT Identifier	NCT04093349



Pipeline summary

Marketed products additional indications

Global Development late-stage trials

pRED (Roche Pharma Research & Early Development)

gRED (Genentech Research & Early Development)

Spark

Roche Group YTD Sep 2021 sales

Diagnostics

Foreign exchange rate information





CHFm	YTD Sep 2020	YTD Sep 2021	% change CER
Pharmaceuticals Division	34,317	33,379	0
United States	18,389	16,707	-5
Europe	6,268	6,610	+3
Japan	2,802	3,186	+20
International	6,858	6,876	+2
Diagnostics Division	9,662	13,305	+39
United States	2,503	2,845	+19
Europe	3,000	4,849	+58
Japan	367	505	+45
International	3,792	5,106	+36
Group	43,979	46,684	+8
United States	20,892	19,552	-2
Europe	9,268	11,459	+21
Japan	3,169	3,691	+23
International	10,650	11,982	+14





Top 20 products

	Global US		Euro	Europe		Japan		itional		
	CHFm	% CER	CHFm	% CER	CHFm	% CER	CHFm	% CER	CHFm	% CER
Ocrevus	3,721	17	2,779	11	689	37	-	-	253	50
Perjeta	2,974	4	1,079	-1	847	-3	200	-4	848	24
Actemra / RoActemra	2,690	30	1,300	44	663	14	285	12	442	29
Tecentriq	2,477	27	1,272	14	520	17	387	81	298	66
Avastin	2,390	-39	745	-48	346	-69	502	-1	797	-12
Hemlibra	2,172	42	1,317	35	440	65	260	21	155	138
Herceptin	2,061	-32	501	-55	407	-24	63	-39	1,090	-15
MabThera	1,968	-41	1,197	-47	203	-35	31	-34	537	-26
Kadcyla	1,460	16	613	4	508	23	94	57	245	26
Xolair	1,416	2	1,416	2	-	-	-	-	-	-
Ronapreve	1,084	-	-	-	568	-	360	-	156	-
Lucentis	1,017	-5	1,017	-5	-	-	-	-	-	-
Alecensa	988	19	263	7	221	12	181	10	323	47
TNKase / Activase	921	-5	879	-5	-	-	-	-	42	4
Esbriet	789	-4	556	-4	202	-1	-	-	31	-25
Gazyva	501	8	232	9	167	5	47	-3	55	29
CellCept	453	-2	35	-23	115	-5	52	-8	251	5
Pulmozyme	414	-15	262	-20	89	-13	-	-17	63	15
Evrysdi	396	*	268	*	62	-	3	-	63	-
Mircera	331	-7	_	-	41	-11	90	-17	200	-1
Pharma Division	33,379	0	16,707	-5	6,610	3	3,186	20	6,876	2

CER = Constant Exchange Rates (avg. full year 2020)



Roche

New products

	Glob	al	US		Euro	Europe		Japan		tional
	CHF m	% CER	CHFm (% CER	CHFm	% CER	CHFm	% CER	CHFm	% CER
Erivedge	196	-3	128	-5	44	-6	-	-	24	18
Perjeta	2,974	4	1,079	-1	847	-3	200	-4	848	24
Kadcyla	1,460	16	613	4	508	23	94	57	245	26
Gazyva	501	8	232	9	167	5	47	-3	55	29
Esbriet	789	-4	556	-4	202	-1	-	-	31	-25
Cotellic	35	-9	10	21	13	-20	-	-	12	-13
Alecensa	988	19	263	7	221	12	181	10	323	47
Tecentriq	2,477	27	1,272	14	520	17	387	81	298	66
Ocrevus	3,721	17	2,779	11	689	37	-	-	253	50
Hemlibra	2,172	42	1,317	35	440	65	260	21	155	138
Xofluza	(5)	-	(8)	-	-	-	-	-	3	69
Polivy	167	35	67	-17	63	48	29	-	8	*
Rozlytrek	35	137	23	90	5	*	5	176	2	*
Phesgo	213	*	98	*	92	_	_	_	23	-
Enspryng	69	*	15	249	1	*	52	*	1	*
Evrysdi	396	*	268	*	62	_	3	_	63	_
Gavreto	5	_	5	_	_	_	_	_	_	_
Ronapreve	1,084	_	_	-	568	-	360	-	156	-
Total	17,277	30	8,717	15	4,442	40	1,618	77	2,500	53



Pharma Division CER sales growth¹ in % *Global top 20 products*

	Q1/20	Q2/20	Q3/20	Q4/20	Q1/21	Q2/21	Q3/21
Ocrevus	38	12	37	10	16	31	7
Perjeta	22	12	17	20	2	7	2
Actemra / RoActemra	30	40	27	29	22	12	57
Tecentriq	99	54	49	35	26	31	23
Avastin	-13	-24	-30	-35	-40	-40	-37
Hemlibra	146	59	57	45	33	58	37
Herceptin	-24	-33	-38	-43	-35	-35	-26
MabThera	-15	-32	-33	-43	-46	-34	-42
Kadcyla	55	26	33	26	17	21	11
Xolair	3	1	3	3	-6	3	8
Ronapreve	-	-	-	-	-	-	-
Lucentis	-13	-25	-5	-22	-7	2	-10
Alecensa	43	27	37	54	14	25	18
TNKase / Activase	11	-3	1	11	-17	3	3
Esbriet	22	2	5	-9	-8	1	-5
Gazyva	49	23	15	6	-2	18	10
CellCept	7	-2	-11	-1	-5	-3	3
Pulmozyme	10	-10	-16	-17	-23	-13	-7
Evrysdi	-	-	-	-	-	-	*
Mircera	-8	-7	-26	-24	-13	-10	1

CER = Constant Exchange Rates; 1 Q1-Q4/20 vs Q1-Q4/19; Q1-Q3/21 vs Q1-Q3/20







	US			Europe			Japan				International					
	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q ²	Q1	Q2	Q3
Ocrevus	5	9	28	0	20	37	40	36	-	-	-	-	55	77	41	35
Perjeta	0	-2	-3	2	4	-3	2	-8	0	-11	-2	0	135	23	34	16
Actemra / RoActemra	19	10	3	143	24	12	20	10	1	-2	15	25	114	134	27	-14
Tecentriq	27	13	19	10	18	14	20	16	75	82	86	75	86	84	56	62
Avastin	-47	-48	-46	-50	-61	-68	-69	-69	-7	-8	0	5	8	-4	-20	-11
Hemlibra	30	21	49	36	99	71	123	26	15	11	21	29	325	214	92	138
Herceptin	-59	-57	-55	-52	-31	-25	-25	-20	-43	-43	-37	-37	-29	-16	-22	-7
MabThera	-49	-53	-37	-49	-36	-45	-21	-33	-34	-37	-34	-30	-24	-23	-30	-25
Kadcyla	11	5	6	0	34	24	29	16	41	54	57	59	50	28	35	16
Xolair	3	-6	3	8	-	-	_	-	_	-	_	-			-	-
Ronapreve	-	_	_	-	-	-	_	-	_	-	_	-			-	-
Lucentis	-22	-7	2	-10	-	-	-	-	-	-	_	-		-	-	-
Alecensa	-4	-2	13	9	22	11	19	7	29	8	10	11	;	44	59	40
TNKase / Activase	11	-17	2	2	-	-	_	-	_	-	_	-		-10	6	17
Esbriet	-12	-8	0	-2	2	-10	9	0	-	-	_	-	-6	0	-7	-73
Gazyva	5	0	28	3	15	-11	19	10	-9	1	-17	10	_1	21	23	43
CellCept	-6	-31	-18	-18	-10	-22	17	-2	1	-9	-7	-7	4	11	-8	13
Pulmozyme	-24	-28	-21	-10	4	-20	-7	-10	-15	-23	-9	-18	-7	' 3	40	12
Evrysdi	-	-	-	*	-	_	-	-	-	_	_	-		-	-	-
Mircera	-	-	-	_	-17	-23	-7	-3	-18	-18	-15	-18	-30	8- (-8	13



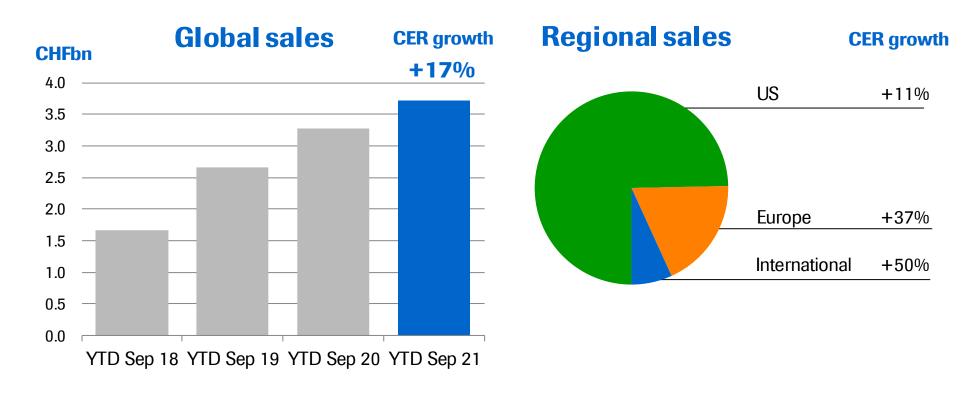
CER sales growth (%) Quarterly development

		2020 v	s. 2019		2021 vs. 2020					
	Q1	Q2	Q3	Q4		Q1	Q2	Q3		
Pharmaceuticals Division	7	-6	-4	-7	l	-9	4	5		
United States	3	-10	-5	-13		-14	0	0		
Europe	14	-3	2	-8		-6	15	1		
Japan	3	-7	-13	-5		-7	7	60		
International	16	5	-2	11		0	4	2		
Diagnostics Division	5	2	18	28		55	48	18		
Roche Group	7	-4	1	1		3	14	8		

CER=Constant Exchange Rates 136

Ocrevus





YTD Sep 2021 sales of CHF 3,721m

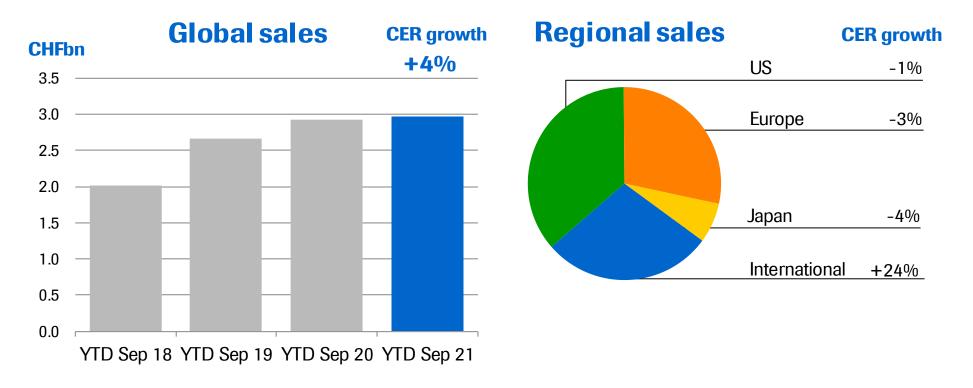
• US: Moving into earlier lines displacing orals; COVID-19 impact still felt

• EU: Uptake dynamics in EU5 strong despite COVID-19 impact still felt

CER=Constant Exchange Rates

Perjeta



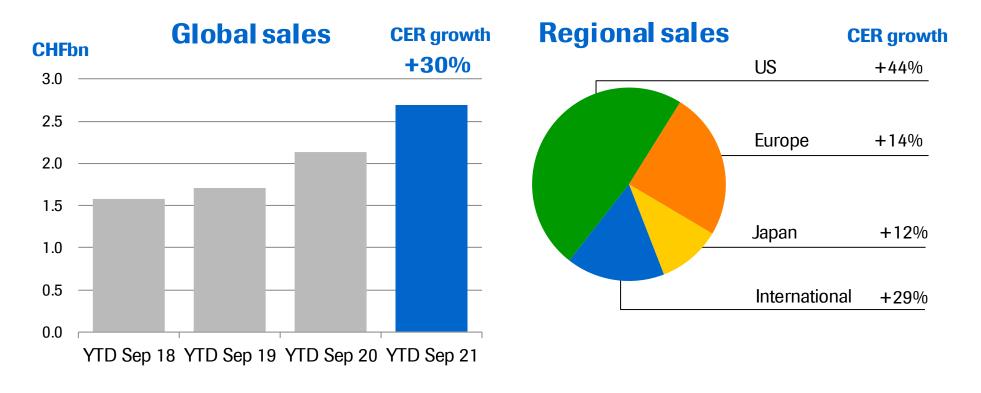


YTD Sep 2021 sales of CHF 2,974m

- US: Patients with residual disease being switched to Kadcyla; Cannibalization from Phesgo
- EU: Patients with residual disease being switched to Kadcyla; Cannibalization from Phesgo
- International: Accelerated growth in all regions, especially LATAM and China

Actemra / RoActemra



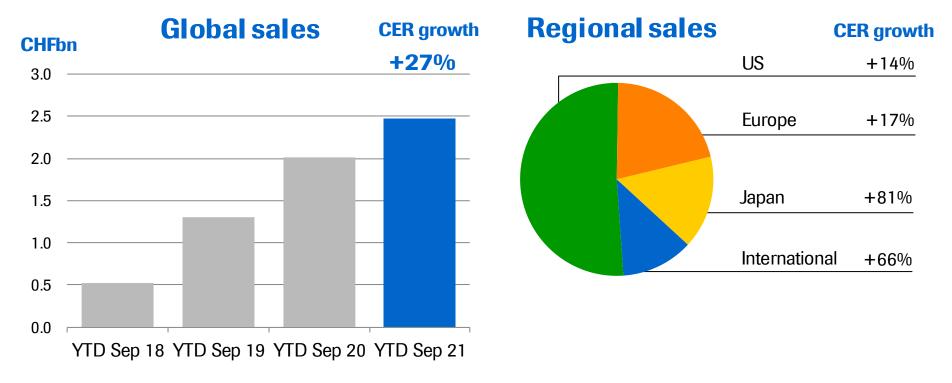


YTD Sep 2021 sales of CHF 2,690m

- US: Increased demand for SC formulation (home administration) and due to COVID-19
- EU: Market leadership in 1L RA monotherapy maintained; Growth driven by new RA, GCA and COVID-19
- International: Strong growth driven by all regions due to COVID-19

Tecentriq



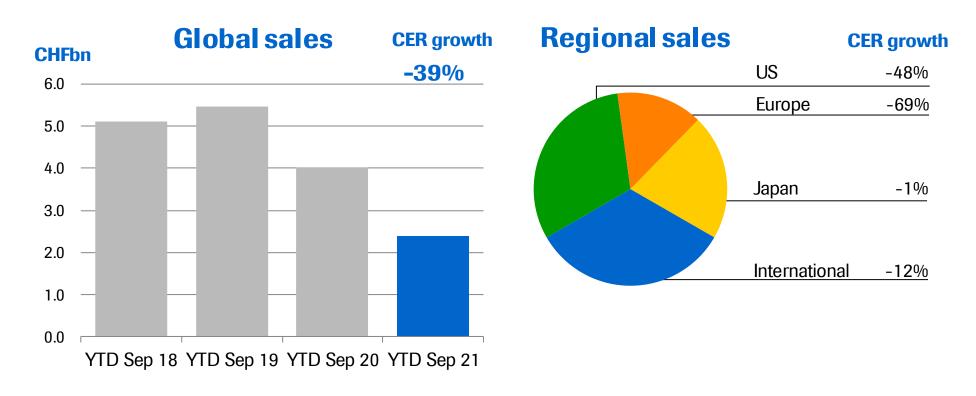


YTD Sep 2021 sales of CHF 2,477m

- US: Growth driven by first-in-class launches in 1L HCC and 1L SCLC
- EU: Growth driven by first-in-class launches in 1L HCC and 1L SCLC
- Japan: Growth driven by first-in-class launches in 1L HCC, 1L SCLC and 1L TNBC

Avastin



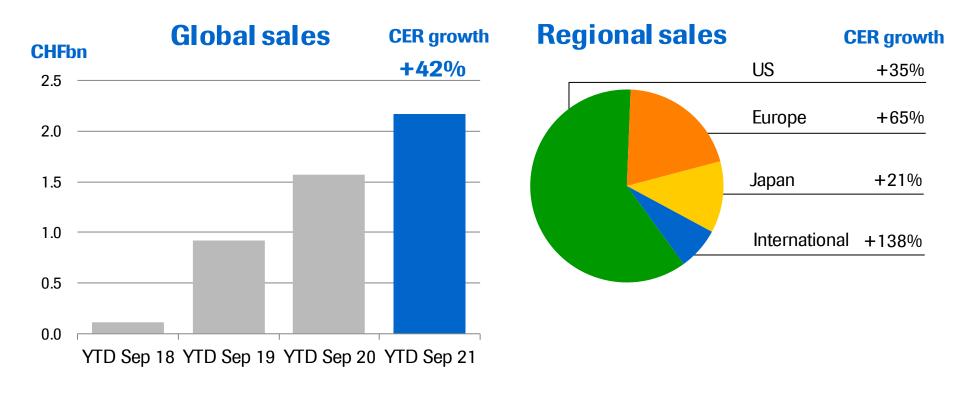


YTD Sep 2021 sales of CHF 2,390m

- US: Decline due to biosimilars
- EU: Decline due to biosimilars
- Japan: Limited decline due to biosimilars with narrow labels
- International: Decline due to biosimilars

Hemlibra



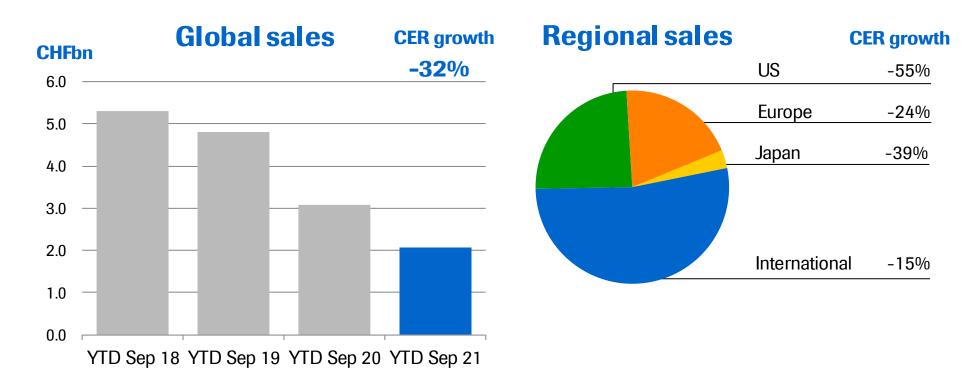


YTD Sep 2021 sales of CHF 2,172m

- US: Continued share gains in non-inhibitor patients
- EU: Continued share gains in non-inhibitor severe patients
- Japan: Strong uptake in non-inhibitor patients

Herceptin



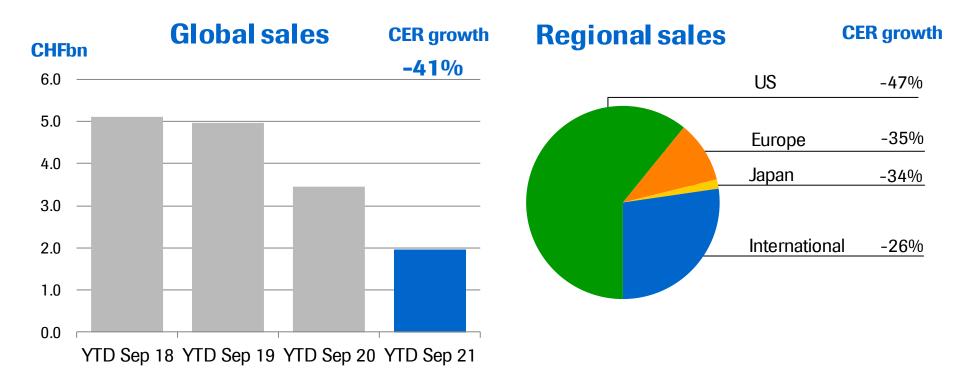


YTD Sep 2021 sales of CHF 2,061m

- US: Biosimilar erosion; Switching of patients with residual disease to Kadcyla; Cannibalization from Phesgo
- EU: Biosimilar erosion; Switching of patients with residual disease to Kadcyla; Cannibalization from Phesgo
- Japan: Decline due to biosimilars
- International: Decline due to biosimilars

MabThera / Rituxan



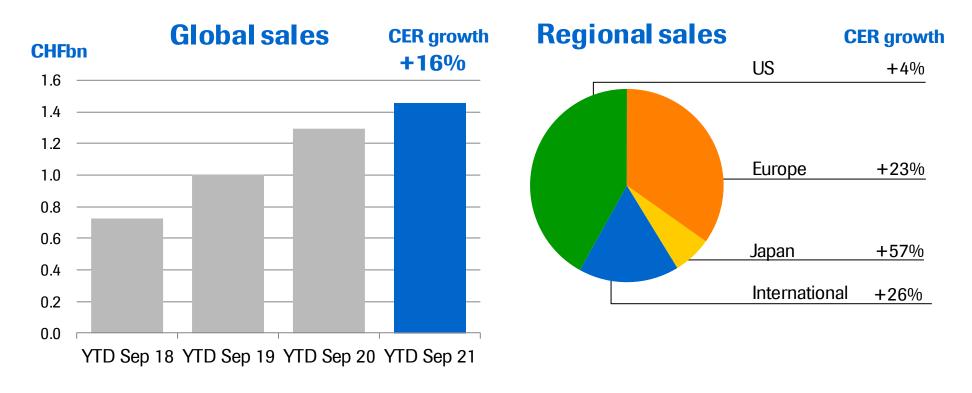


YTD Sep 2021 sales of CHF 1,968m

- US: Decline due to biosimlars
- EU: Decline due to biosimlars
- Japan: Decline due to biosimilars
- International: Decline due to biosimilars

Kadcyla



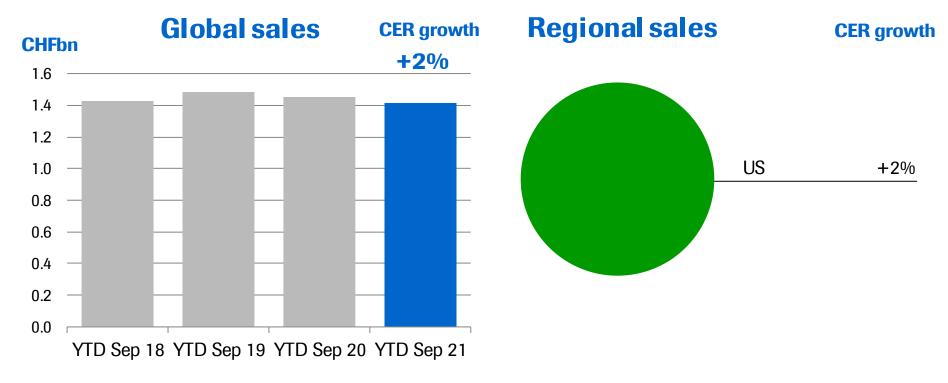


YTD Sep 2021 sales of CHF 1,460m

- US: Uptake in adjuvant eBC in patients with residual disease after neoadjuvant treatment
- EU: Strong uptake in adjuvant eBC
- International: Growth driven by all regions

Xolair





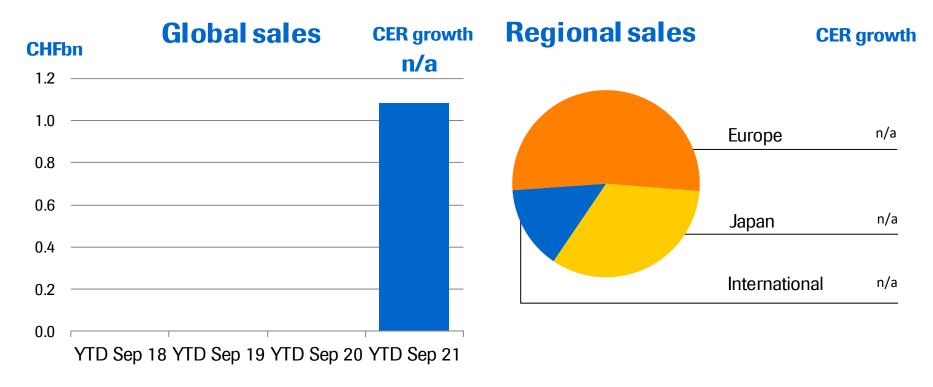
YTD Sep 2021 sales of CHF 1,416m

• US: Xolair remains market leader in growing biologics asthma market; Growth driven by chronic idiopathic urticaria (CIU)

CER=Constant Exchange Rates

Ronapreve



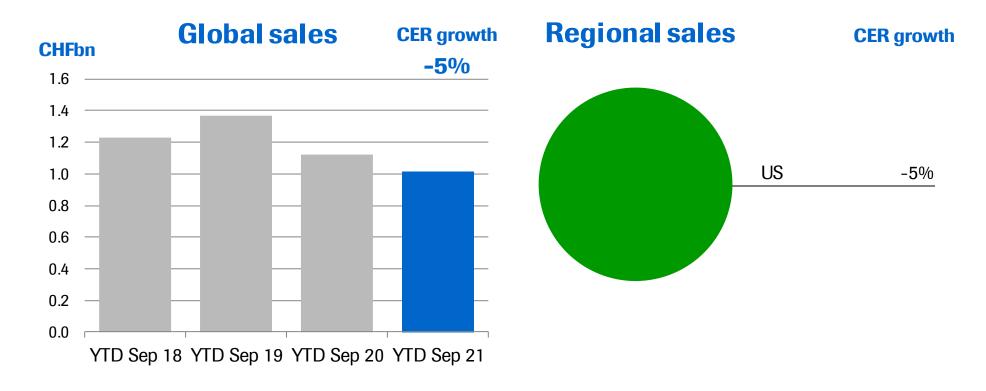


YTD Sep 2021 sales of CHF 1,084m

- EU: Government sales mainly in Germany, Italy, France
- Japan: Government sales started as of Q3

Lucentis



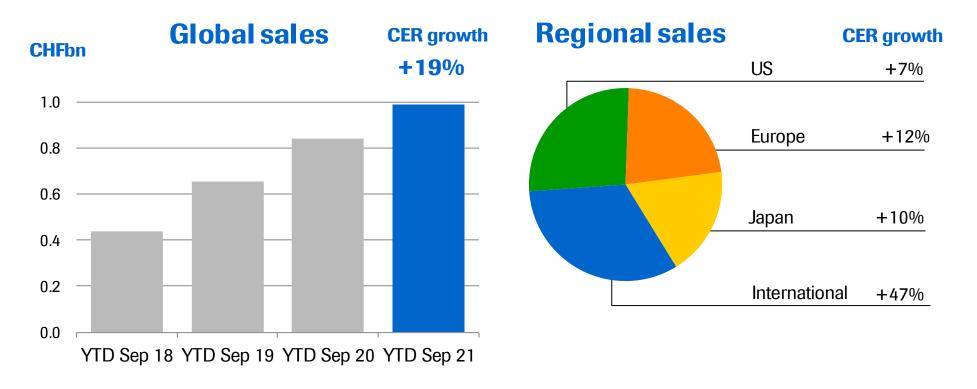


YTD Sep 2021 sales of CHF 1,017m

- Volume growth off-set by price decline; First biosimilar expected by mid 2022
- · Overall market shares stable

Alecensa



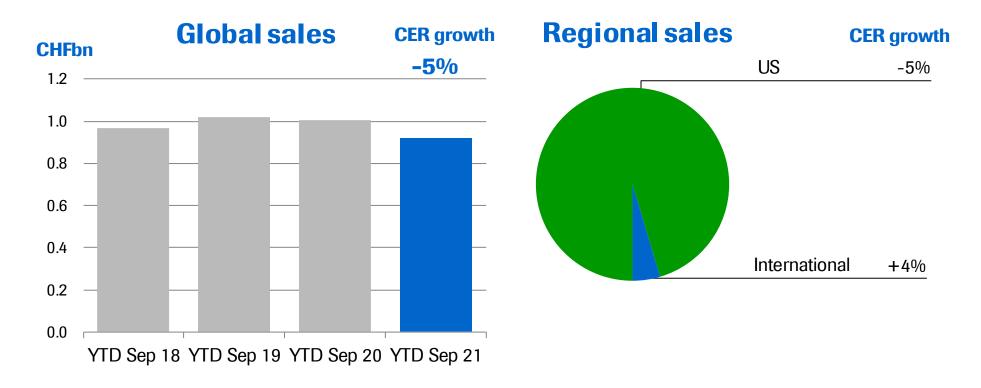


YTD Sep 2021 sales of CHF 988m

- US: Patient share in 1L growing >70%
- EU: Growth driven by 1L; EU-5 new patient share reaching >80%
- Japan: Growth due to 1L new patient share reaching >70%
- International: Growth largely driven by China

TNKase / Activase





YTD Sep 2021 sales of CHF 921m

• US: Decline due to COVID-19 impact



Pipeline summary

Marketed products additional indications

Global Development late-stage trials

pRED (Roche Pharma Research & Early Development)

gRED (Genentech Research & Early Development)

Spark

Roche Group YTD Sep 2021 sales

Diagnostics

Foreign exchange rate information





	Globa	al	EMEA ¹		North America		Asia-Pacific		Latin America	
	C	% CER	% CER		% CER		% CER		% CER	
	CHFm (growth	CHFm (growth	CHFm g	rowth	CHFm (growth	CHFm (growth
Core Lab ²	5,610	26	1,977	28	1,006	17	2,237	25	390	47
Molecular Lab	3,454	36	1,265	28	1,290	30	772	65	127	32
Point of Care	2,058	279	1,526	495	160	-7	212	167	160	444
Diabetes Care	1,294	4	713	-2	221	4	212	9	148	33
Pathology Lab	889	14	234	17	462	9	178	21	15	29
Diagnostics Division	13,305	39	5,715	54	3,139	18	3,611	35	840	63



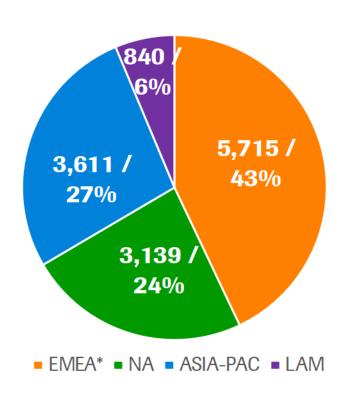


	Q2 20 CHFm % CER	Q3 20 CHFm % CER	Q4 20 CHFm % CER	Q1 21 CHFm % CER	Q2 21 CHFm % CER	Q3 21 CHFm % CER
Core Lab ²	1,439 -17	1,666 -3	1,707 -2	1,765 31	1,961 36	1,884 12
Molecular Lab	944 91	1,020 109	1,182 125	1,107 86	1,109 19	1,238 21
Point of Care	170 -10	181 12	538 212	716 281	900 424	442 143
Diabetes Care	407 -9	429 6	409 -14	460 13	434 7	400 -7
Pathology Lab	238 -8	287 12	293 3	282 9	308 32	299 4
Diagnostics Division	3,198 2	3,583 18	4,129 28	4,330 55	4,712 48	4,263 18

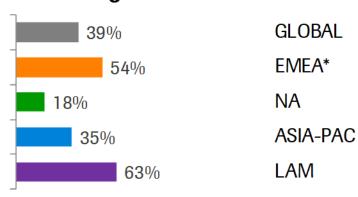


YTD Sep 2021: Diagnostics Division regional sales Growth driven by EMEA and Asia Pacific

Sales YTD CHFm & % of total sales
Total YTD Sales = 13,305

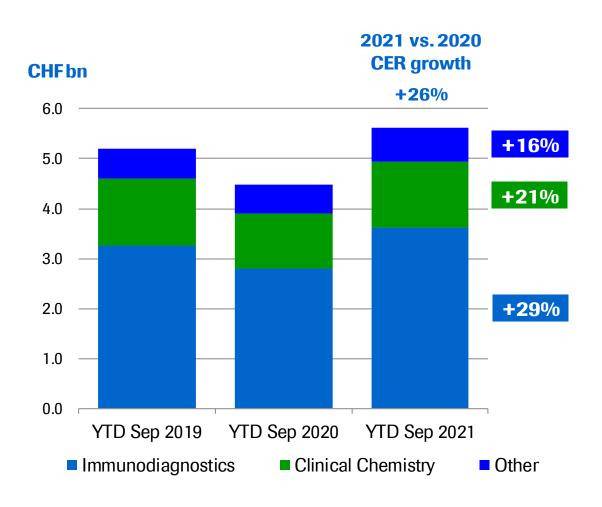


Sales growth at CER Diagnostics Division



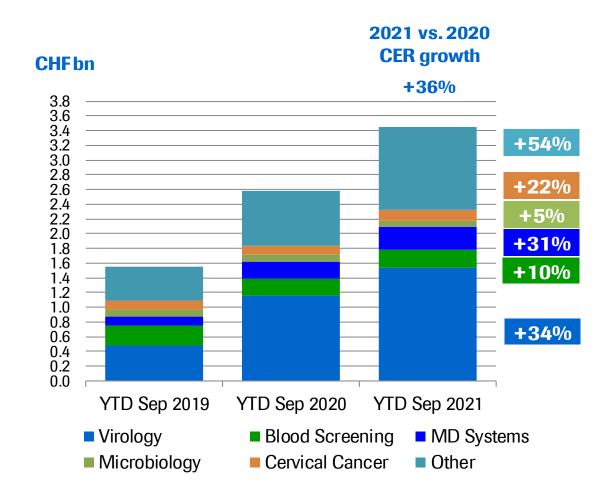
Core Lab





Molecular Lab

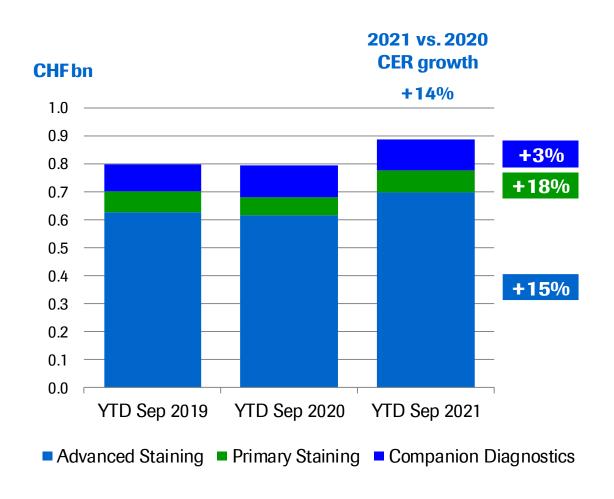




CER=Constant Exchange Rates 156

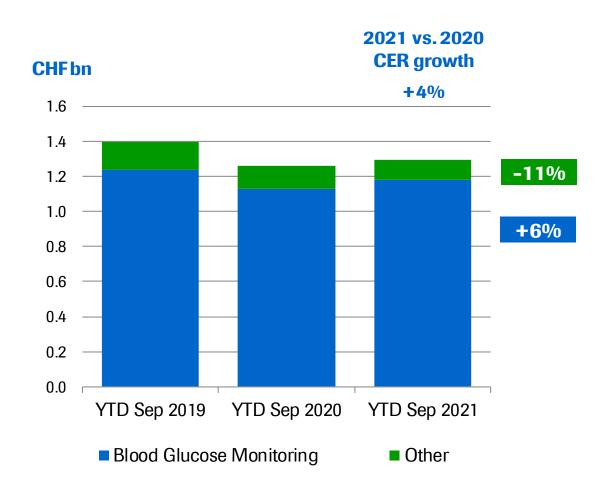
Pathology Lab





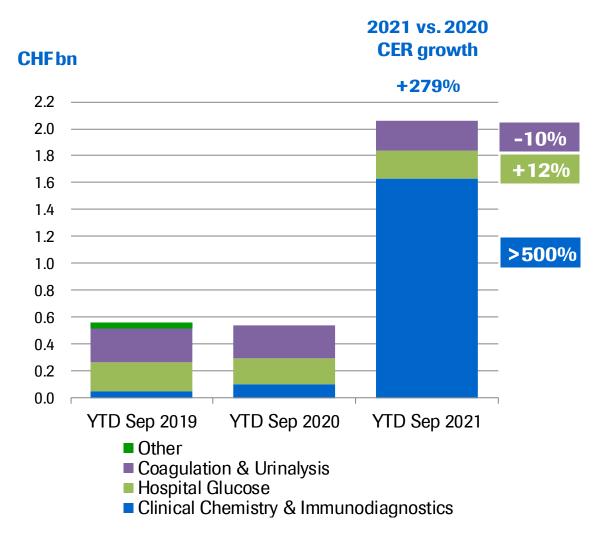
Diabetes Care





Point of Care





CER=Constant Exchange Rates 159



Pipeline summary

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gRED (Genentech Research & Early Development)

Spark

Roche Group YTD Sep 2021 sales

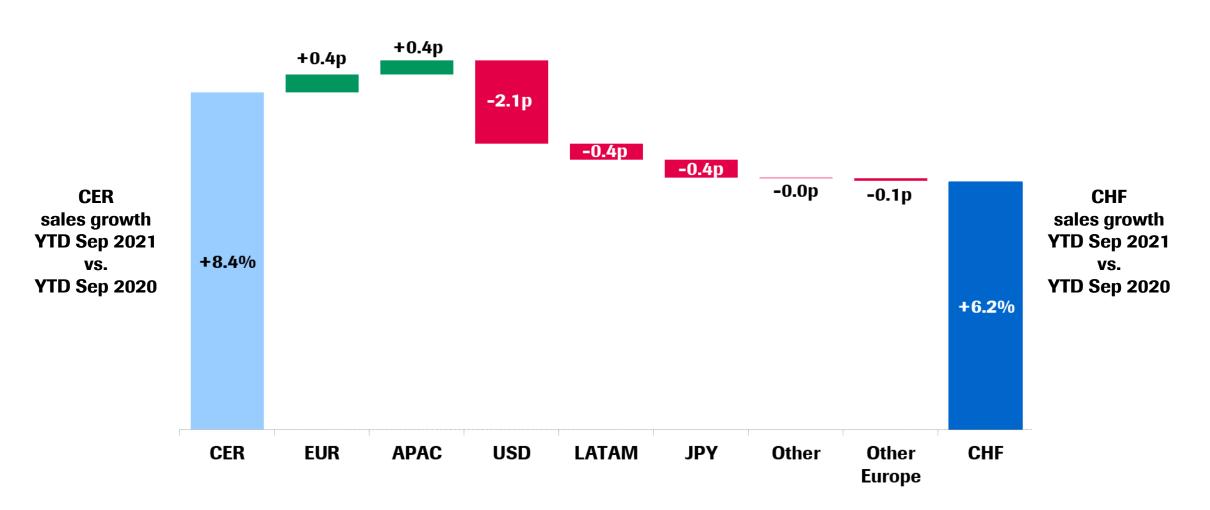
Diagnostics

Foreign exchange rate information





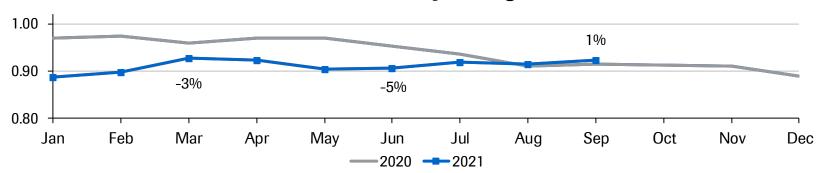
Negative impact due to most currencies and driven by the USD



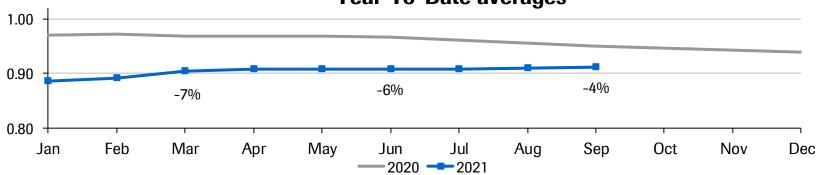
CHF/USD



Monthly averages

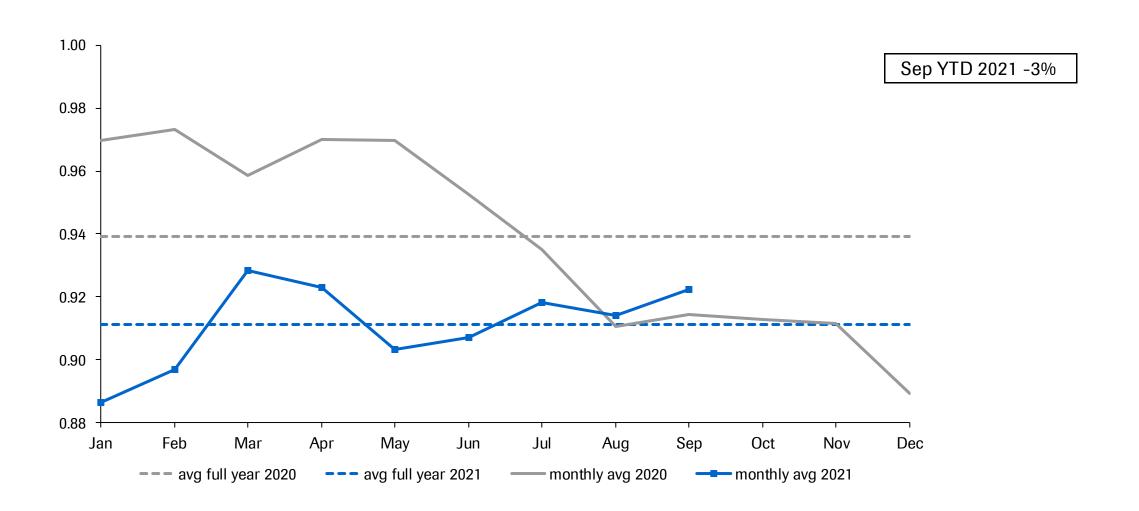


Year-To-Date averages



CHF/USD

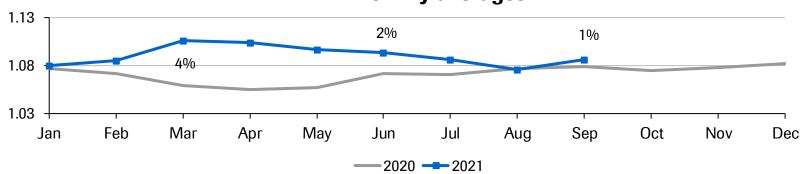


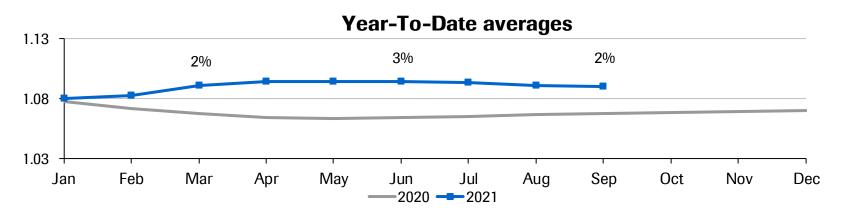


CHF/EUR



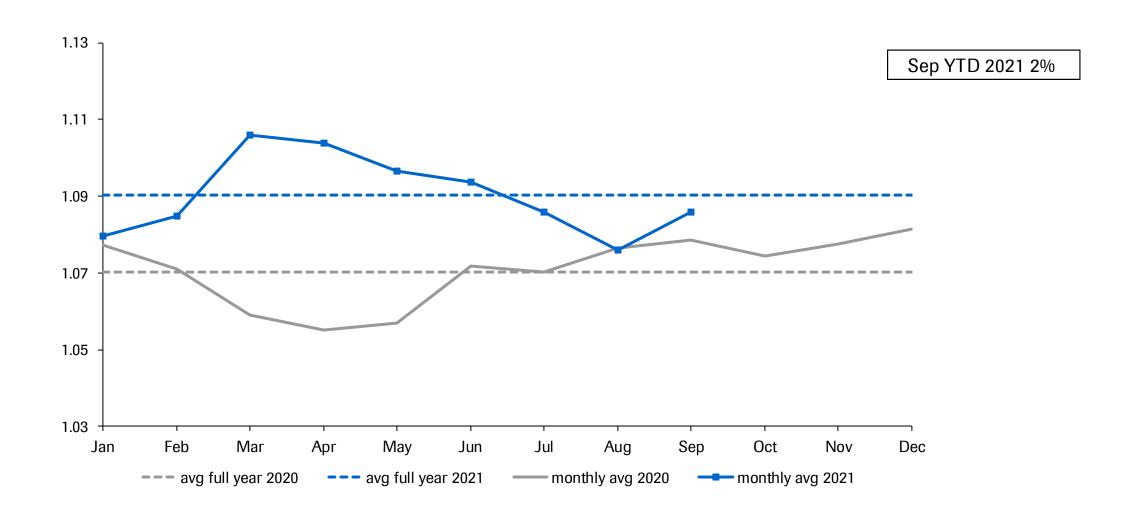






CHF/EUR

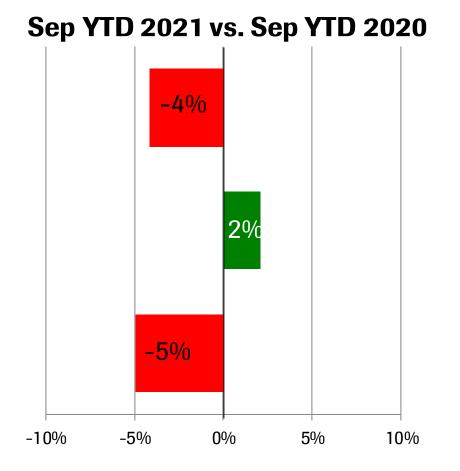








	Sep YTD 2021	Sep YTD 2020
USD	0.91	0.95
EUR	1.09	1.07
JPY	0.84	0.88

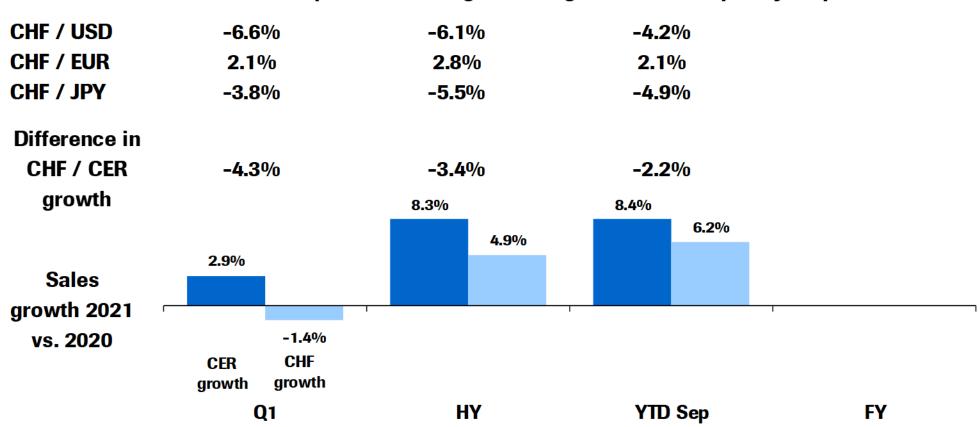




Exchange rate impact on sales growth

YTD Sep 2021: negative impact of USD and JPY, positive impact of EUR

Development of average exchange rates versus prior year period

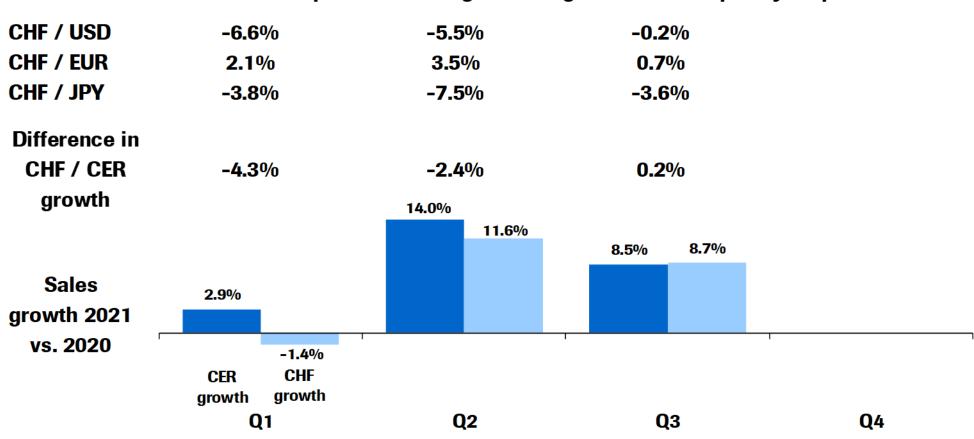


CER = Constant Exchange Rates (avg full year 2020)



Exchange rate impact on sales growth Q3 2021: negative impact of JPY and USD, positive impact of EUR

Development of average exchange rates versus prior year period



CER = Constant Exchange Rates (avg full year 2020)



Doing now what patients need next